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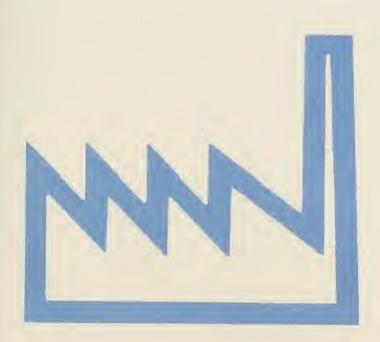
1987 524 524 Census of Manufactures

MC87-S-4

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SUBJECT SERIES

Distribution of Sales by Class of Customer



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If you have any questions concerning the statistics in this report, call (301) 763-1503.

1987

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Issued June 1992



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INTRODUCTION

PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local Governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the

Census of Retail Trade

Census of Wholesale Trade

Census of Service Industries

Census of Transportation

Census of Manufactures

Census of Mineral Industries

Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial

activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977. and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent

observations, yield less kind-of-business and geographic detail than the censuses. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the Guide to the 1987 Economic Censuses and Related Statistics. More information on the methodology, procedures, and history of the censuses will be published in the History of the 1987 Economic Censuses. Contact Customer Services for information on availability.

CENSUS OF MANUFACTURES

General

This report, from the 1987 Census of Manufactures, is one of seven subject reports, each of which provides statistics on selected topics pertinent to the manufacturing sector. Additional subject reports will be issued on concentration ratios in manufacturing, legal form of organization, textile machinery in place, and a general Nationallevel summary. Separate industry reports have been issued for groups of related industries and geographic reports for each of the 50 states and the District of Columbia.

The industry reports include such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, capital expenditures, product shipments, etc.

State reports present similar statistics for each state and its important metropolitan statistical areas (MSAs), counties, and places. Selected statistical totals for "all manufacturing" have been shown in the State reports for MSAs with 250 employees or more and for counties and places with 450 employees or more.

The General Summary report contains industry, product class, and geographic area statistics summarized in one report. The introduction to the General Summary discusses, at greater length, many of the subjects described in this introduction. For example, the General Summary text will discuss the relationship of value added by manufacture to national income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

Scope of Census and Definition of Manufacturing

The 1987 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the 1987 Standard Industrial Classification (SIC) Manual¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines manufacturing as the mechanical or chemical transformation of substances or materials into new products. The assembly of component parts of products also is considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use powerdriven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes. or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

Relationship Between Annual Survey of Manufactures and Census of Manufactures

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the census of manufactures. The ASM is a probability-based sample of approximately 56,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, costs of purchased services, and foreign content of materials consumed. Except for supplemental labor costs, the extra ASM items are collected only in census years.

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in

distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substan-

In 1987, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

Manufacturing Universe and Census Report **Forms**

The 1987 Census of Manufactures universe includes approximately 350,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small Single-Establishment Companies Not Sent a Report Form

In the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industryby-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-record cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than 5 employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock no. 041-001-00314-2.

of materials were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative-record files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded at the four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-record cases were only given a two- or three-digit SIC group. For the 1987 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments Sent a Report Form

The 200,000 establishments covered in the mail canvass were divided into three groups:

a. ASM sample establishments—This group consisted of approximately 56,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size.

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services.

The census part of the report form is one of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of this many forms to canvass the 459 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and in a large number of cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant material not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

- b. Large and medium establishments (non-ASM)—Approximately 84,000 establishments were included in this group. A variable cutoff, based on administrative-record payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive 1 of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. Small single-establishment companies (non-ASM)— This group consisted of approximately 60,000 establishments. For those industries where application of the variable cutoff for administrative-record cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used.

These establishments received 1 of the approximately 80 versions of the short form which requested summary product and material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same data were collected on the short form as on the long form. However, detailed information on materials consumed was not collected on the short form; thus, its use would increase the value of the n.s.k. categories.

Auxiliaries

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies; i.e., with the general supervision and control of two units or more, such as manufacturing plants. mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering efforts conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters.

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 459 manufacturing industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively become narrower with successive additions of numerical digits. For 1987, there are 20 major groups (two-digit SIC), 139 industry groups (three-digit SIC), and 459 industries (four-digit SIC). This represents an expansion of four-digit industries from 452 in 1972/77 and a reduction of threedigit groups from 143 in 1972/77. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 11,000 products identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year; i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in operations. Refining of nonferrous metals from ore or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year. However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The result of these rules covering the switching of plants from one industry classification to another is that, at the aggregate level, some industries comprise different mixes of establishments between survey years, and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year with the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.) reflect not only the primary activities of the establishments in that industry but also their secondary activities.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose data for an individual establishment or company.

The disclosure analysis for statistics in this report is based on the total value of shipments.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, DC 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

_	Represents zero.
(D)	Withheld to avoid disclosing data for individual
	companies; data are included in higher level
	totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet pub-
	lication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Census/ASM Durables Nondurables	Kenneth Hansen Michael Zampogna	301-763-7304 301-763-2510
Current Indus- trial Reports Durables Nondurables	Thomas Flood Judy Dodds	301-763-2518 301-763-5911
Import/Export Publications	Foreign Trade Division	301-763-5140
Industry Analysis and Forecasts	International Trade Administration	202-377-4356

EXPLANATORY TEXT

GENERAL

This report provides information on the primary channels through which manufacturers distributed their products in 1987, based on a survey conducted as part of the census of manufactures. It is the fifth comprehensive survey of this type; the first four covered 1939, 1958, 1967, and 1977.

Prior to 1987, products of the Apparel and Other Textile Industry, Major Group 23, and the Printing and Publishing Industry, Major Group 27 were excluded from the survey. These industries are included for 1987. Not all product groups could be shown because of the unreliability of the data tabulated, or because data were suppressed to avoid disclosing data for individual companies.

SCOPE OF THE SURVEY

Although this survey is conducted as part of the 1987 Census of Manufactures, the panel is a subsample of 19,500 establishments and 500 companies from the Annual Survey of Manufactures (ASM), The ASM is a sample of 56,000 establishments selected from the census universe of 350,000.

Five hundred companies were required to report on a company basis. These 500 companies, which were identified as having company shipments greater than \$500 million, received Form MC-9601 and were asked to report for all their manufacturing plants grouped together. They also received a product reference list to aid them in correctly reporting their product shipments. An additional 8,000 multiunit establishments received Form MC-9602 and were required to provide data for a sample of the establilshments of the company.. Form MC-9603 was mailed to the 11,500 single-unit establishments.

Respondents were asked to report their value of product shipments by class of customer and the percentage of those shipments that were bought and sold without further processing (resales). Since it is recognized that there is no uniform system of sales analysis and companies vary in their recordkeeping, estimates based on any information available on the type of economic activity of their customers were accepted.

Respondents reporting on Form MC-9601 were asked to report separately the distribution by class of customer shipments and sales for each four-digit product group as applicable to the company's manufacturing operations. (See page 7 of the Introduction.) The classification system defined in the 1987 Standard Industrial Classification (SIC)

Manual provided the framework for the grouping of products. This is the system of classification developed over a period of years by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget.

Respondents reporting on Forms MC-9602 or MC-9603 were asked to report value of shipments according to class of customer but were not required to identify the product groups. The value of shipments for these establishments were coded into the four-digit product group that matched their 1987 Census of Manufactures industry classification. Forms MC-9602 and MC-9603 were establishment-level reports, and all shipments were assumed to represent one product; whereas, the MC-9601 reports were companylevel reports and usually included many product groups.

DESCRIPTION OF SURVEY SAMPLE

Information for this survey was collected from a subsample of the mail portion of the 1986 ASM sample panel. The mail portion of the ASM is a probability sample of approximately 56,000 manufacturing establishments selected to represent the 220,000 establishments mailed schedules in the 1982 Census of Manufactures. The ASM sample is updated annually by adding new manufacturing establishments and removing those that went out of business or out of scope.

As noted in the Scope of the Survey, the sample for the survey on distribution of sales by class of customer consists of the largest 500 manufacturing companies, plus 8,000 additional multiunit establishments, and 11,500 singleunit establishments. The sample frame for selecting the 8,000 additional multiunits consisted of all mailed multiunit establishments in the 1986 ASM excluding establishments that were part of one of the largest 500 companies. The frame for selecting the 11,500 single units consisted of all mailed single units in the 1986 ASM. The single units and additional multiunits were sampled separately using probability proportionate to size sampling. Total value of shipments from the 1986 ASM was used as the measure of size for selecting the samples.

DESCRIPTION OF ESTIMATING PROCEDURE

The estimates in this report are ratio estimates designed to represent the 1987 Census of Manufactures universe. The estimates were developed using weighted survey data and a ratio adjustment to account for nonresponse, over and undersampling, and inclusion of resale shipments.

Since the survey sample is a subsample of the ASM the selection of the 19,500 sample establishments was conditional to these establishments having been selected as part of the ASM sample. Therefore, the probability of selection for a survey establishment is the product of the ASM selection probability and the conditional probability from the survey sample selection. The sampling weight is the inverse of the establishment's probability of selection.

Prior to producing the estimates, a ratio adjustment factor was computed for each four-digit product group. This factor was the inverse of the ratio of the product shipments reported in the census to the product shipments reported in this survey. This factor was applied to the weighted totals for each class of customer category.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, completecoverage survey) are provided by the standard errors of estimates.

The particular sample selected for the class of customer survey is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, completecoverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, completecoverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

1. From one standard error below to one standard error above the derived estimate for about twothirds of all possible samples.

- 2. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
- 3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the completecoverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

CONTENTS

Distribution of Sales by Class of Customer



[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendix	es]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	All	industries			d and kin	dred	2011, Me	at packing	plants
Total product shipments ²	2 349 599.7	100	(X)	305 753.1	100	(X)	41 226.8	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	225 130.4 30 911.2 207 276.4 11 451.9	10 1 9 (Z)	4 6 5 9	26 113.0 8 378.0 9 564.6 2 612.4	9 3 3 1	9 8 6 19	3 130.5 145.0 1 414.3 113.5	8 (Z) 3 (Z)	12 31 12 28
Shipments to all other customers: Wholesalers ³ Retailers Manufacturers Federal, State, and local governments All other	502 356.1 380 356.3 576 027.7 157 284.2 258 805.6	21 16 25 7 11	2 4 2 3 3	142 591.7 66 344.4 38 267.1 3 521.4 8 360.5	47 22 13 1 3	5 5 5 7 11	25 218.6 5 325.1 4 994.3 610.5 274.9	61 13 12 1	14 10 8 17 25
Resales ⁴ Adjustment ratio ⁵	(X)	4	(X)	(X)	7	(X)	(X)	8	(X)
Adjustinent failu-	2013 \$21	usages and	(X)	25 Pou	(X)	(X)	11	(X)	(X)
		pared mea			processin		2021, 0	reamery b	utter
Total product shipments ²	14 352.8	100	(X)	14 370.9	100	(X)	1 613.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers:	3 485.1 290.6 282.2 6.0	24 2 2 (Z)	32 43 28 66	1 637.5 151.9 978.9 127.1	11 1 7 1	61 60 38 64	225.9 (D) (D)	14 (D) (D)	21 (X) (X) (X)
Wholesalers ³ Retailers Manufacturers Federal, State, and local governments All other Resales ⁴	4 988.8 4 688.0 367.3 202.7 42.1 (X)	35 33 3 1 (Z)	11 17 23 47 35 (X)	5 496.5 4 305.7 1 380.1 74.5 218.7 (X)	38 30 10 1 2	22 34 36 36 65 (X)	629.6 109.9 121.9 50.3 (D) (X)	39 7 8 3 (D) 3	13 17 18 14 (X)
Adjustment ratios	44 2022 Ch	(X)	(X)	34 Day	(X)	(X)	9	(X)	(X)
		eese, natur rocessed	ai aiiu	evaporate	condensed dairy p			cream and desserts	11102611
Total product shipments ²	10 775.6	100	(X)	5 839.3	100	(X)	4 195.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	195.5 282.2 326.7	2 3 3 -	30 42 31 (X)	234.0 3.2 52.3	4 (Z) 1 -	52 51 38 (X)	615.2 474.7 24.4	15 11 1 -	36 28 59 (X)
Shipments to all other customers: Wholesalers³ Retailers Manufacturers Federal, State, and local governments All other Resales⁴ Adjustment ratio⁵	7 307.3 761.5 1 599.3 261.5 41.5 (X)	68 7 15 2 (Z) 10 (X)	29 27 18 38 54 (X)	1 816.9 2 303.0 820.4 168.5 441.1 (X)	31 39 14 3 8 10 (X)	27 32 23 26 39 (X)	1 065.4 1 739.6 101.3 152.3 22.2 (X)	25 41 2 4 1 10 (X)	21 23 39 59 41 (X)
	2020	6, Fluid mil	k	2032, Ca	nned spec	ialties		anned fruit	s and
Total product shipments ²	16 884.6	100	(X)	4 444.1	100	(X)	12 244.4	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	1 765.7 1 802.6 872.3	10 11 5 -	16 21 35 (X)	107.9 7.4 35.5 122.2	2 (Z) 1 3	69 41 53 41	83.6 587.8 226.0	1 5 2 -	49 27 33 (X)
Shipments to all other customers: Wholesalers ³ Retailers Manufacturers Federal, State, and local governments All other Resales ⁴ Adjustment ratio ⁵	4 325.1 6 489.5 1 059.1 185.2 385.1 (X)	26 38 6 1 2	14 15 16 14 21 (X)	3 457.6 496.8 9.6 103.3 103.7 (X)	78 11 (Z) 2 2 2 (X)	23 24 29 32 27 (X)	6 263.1 4 091.8 596.4 311.4 84.2 (X)	51 33 5 3 1 3 (X)	16 19 20 21 23 (X)
	2034, De	hydrated	fruits,	2035, Pick	des, sauc	es, and	2037, F	rozen fruit	
Total product oblamosts?		oles, and s			d dressing			egetables	
Total product shipments ²	2 079.2 256.0 48.7 90.9	100 12 2 4	52 57 56 (X)	189.6 22.6 2.0	100 4 1 (Z)	61 52 40 (X)	6 253.7 199.4 106.8	3 - 2 -	50 (X) 32 (X)
Shipments to all other customers: Wholesalers3	987.2 297.3 306.8 10.7 81.7 (X)	47 14 15 1 4 2 (X)	21 31 25 57 47 (X)	2 864.8 756.3 29.7 53.7 560.6 (X)	64 17 1 1 13 3 (X)	25 24 30 52 52 (X)	3 887.1 1 262.8 564.5 67.8 165.5 (X)	62 20 9 1 3 2 (X)	18 21 26 25 31 (X)

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explana-	ation of terms,	see appendi	kes]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	2038, Fre	ozen spec n.e.c.	ialties,	2041, Flou mil	r and other		2043, Cere	eal breakfa	st foods
Total product shipments ²	5 252.1	100	(X)	4 690.1	100	(X)	5 081.1	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	461.1 129.0 (D)	9 2 (D)	26 30 (X) (X)	34.9 - 63.6 0.7	1 - 1 (Z)	42 (X) 48 81	(D) - - (D)	(D) - - (D)	(X) (X) (X) (X)
Shipments to all other customers: Wholesalers ³	3 571.1 933.0 (D)	68 18 (D)	17 26 (X)	2 176.2 244.0 1 860.8 91.5	46 5 40 2	23 27 29 41	2 093.2 (D) (D) 137.2	41 (D) (D)	(X) (X)
Federal, State, and local governments	(D) 92.7 (X)	(D) 2 6	(X) 51 (X)	218.4 (X)	5	45 (X)	(D) (X)	(D) 6	(X) (X)
Adjustment ratio ⁵	19	(X)	(X)	33	(X)	(X)	-2	(X)	(X)
	2044	, Rice mill	ing	2045, Prej an	pared flou id doughs	r mixes	2046, \	Vet corn n	nilling
Total product shipments ² Shipments to other establishments of same company:	1 257.5	100	(X)	2 821.6	100	(X)	4 446.2	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(D) (D) 62.6	(D) (D) 5	(X) (X) 21 (X)	53.6 12.6 11.9	2 (Z) (Z)	58 30 44 (X)	52.7 -	- - 1 -	(X) (X) 34 (X)
Shipments to all other customers: Wholesalers3	(D) 219.3 128.7 24.7 235.1	(D) 17 10 2 19	(X) 32 14 27 17	1 645.7 952.4 74.2 34.5 36.7	58 34 3 1	32 44 40 43 38	225.7 2.1 4 142.3 - 23.4	5 (Z) 93 - 1	31 40 23 (X) 27
Resales ⁴ Adjustment ratio ⁵	(X) -5	1 (X)	(X) (X)	(X) 36	5 (X)	(X) (X)	(X) 16	2 (X)	(X) (X)
			2048, Prep	ared feed	ls, n.e.c.	2051, Brea	d, cake, ar products	nd related	
Total product shipments ²	4 710.2	100	(X)	10 712.9	100	(X)	13 513.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	226.2 29.5 16.7	5 1 (Z)	25 27 41 (X)	594.6 418.2 465.3 855.8	6 4 4 8	38 37 31 30	2 515.8 1 327.0 524.3 94.5	19 10 4 1	21 18 32 90
Shipments to all other customers: Wholesalers	2 155.0 2 062.1 103.9 53.0	46 44 2 1	18 19 23 26	1 889.1 1 984.7 1 746.6 11.6	18 19 16 (Z) 26	16 36 22 69	6 196.9 2 507.2 115.2 133.9	46 19 1	24 14 27 22 25
All other	63.7 (X)	(D)	27 (X)	2 747.1 (X)	8	28 (X)	98.2 (X)	18	(X)
Adjustment ratios	13	(X)	(X)	29 2053.	(X) Frozen ba	(X) kery	26	Raw cane	(X)
		kies and	<u> </u>	product	s, except	bread			
Total product shipments ² Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	5 8 53.2	100	(X)	1 372.7	100 9	(X) 26	1 223.0	100	(X)
Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers:	168.9 (D)	(D) 3 (D)	(X) 19 (X) (X)	33.7 5.1	(Z)	30 43 (X)	66.1	5	(X) (X) 89 (X)
Wholesalers ⁹ —Retailers—Manufacturers—Federal, State, and local governments—All other————————————————————————————————————	3 446.2 1 969.1 (D) 30.9 106.4	59 34 (D) 1 2	11 10 (X) 11 47	933.4 243.9 4.3 7.7 24.2	68 18 (Z) 1 2	17 26 37 35 51	43.1 2.8 1 110.0 0.0 0.9	4 (Z) 91 (Z) (Z)	30 46 17 0 79
Resales ⁴ Adjustment ratio ⁵	(X)	8 (X)	(X) (X)	(X) 38	(D) (X)	(X) (X)	(X) 23	(Z) (X)	(X) (X)
Augustinoit faut		ne sugar ı			, Beet sug		2064, 0	Candy and tionery pro	other
Total product shipments ²	2 438.6	100	(X)	1 831.7	100	(X)	6 910.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(D) (D)	(D) (D)	(X) (X) (X) (X)	- 18.6 144.8	- - 1 8	(X) (X) 25 17	211.1 215.0 80.1	3 3 1 -	28 28 33 (X)
Shipments to all other customers: Wholesalers3 Retailers Manufacturers Federal, State, and local governments	544.6 913.8 3.7	29 22 37 (Z) (D)	16 21 14 25	223.5 220.4 1 123.3 1.4 99.8	12 12 61 (Z) 5	18 29 13 17 19	3 973.6 1 769.0 365.3 90.5 205.4	58 26 5 1	21 23 31 42 33
All other	(X)	(D) (X)	(X) (X) (X)	(X)	1 (X)	(X) (X)	(X) 45	3 (X)	(X) (X)

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	
		colate and	i cocoa	2067,	Chewing (gum	2068, Salte	ed and roa and seeds	sted nuts	
Total product shipments ²	3 122,4	100	(X)	868.7	100	(X)	2 064.4	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets	144.8	5 2	70 1	228.4	26	32	(D) (D)	(D) (D)	(X) (X)	
Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers:	(D) (D)	(D) (D)	(X) (X)	-	_	(X) (X) (X)	(D)	(D)	(X) (X)	
Wholesalers ³ Retailers Manufacturers	1 586.9 (D) 228.3	51 (D) 7	24 (X) 21	598.4 41.3 0.5	69 5 (Z)	17 49 32	1 187.1 528.5 109.1	58 26 5	21 23 31	
Federal, State, and local governments	23.8 9.7	(Z)	39 1	_	_	(X) (X)	27.0 61.3	3	42 33	
Resales ⁴ Adjustment ratio ⁵	(X) -30	1 (X)	(X) (X)	(X)	(D) (X)	(X) (X)	(X) -24	1 (X)	(X) (X)	
		tonseed o		2075, S	oybean oil		2076, Vege			
Total product shipments ²	434.6	100	(X)	7 728.9	100	(X)	490.0	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments	19.6 - 4.6	5 -	74 (X) 62	357.8 - 761.2	5 - 10	15 (X) 12	(D)	(D) (D)	(X) (X) (X)	
Other nonmanufacturing establishments Shipments to all other customers:	-	_	(X)	_	-	(X)	-	-	(X)	
Wholesalers³	228.1 24.5 153.4	52 6 35	30 47 38	1 224.2 (D) 5 132.5	16 (D) 66	9 (X) 9	(D) (Z) 415.0	(D) (Z) 85	(X) (X) 5	
Federal, State, and local governments	4.4	1	(X) 43	(D) (D)	(D) (D)	(X) (X)	(D)	(D)	(X) (X)	
Resales ⁴	(X)	13	(X)	(X)	9	(X)	(X)	5	(X)	
Adjustment ratio ⁵	2077, Anim	(X)	ring fate	3 2070 Edi	ble fats a	(X)	1	(X)	(X)	
		and oils	rine iats	2079, Edi	n.e.c.	nu ons,	2082,	Malt bever	ages	
Total product shipments ²	2 168.0	100	(X)	4 694.1	100	(X)	13 521.1	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	51.0 - 31.3 28.2	2 - 1 1	39 (X) 33 58	122.1 28.3 416.3 0.7	3 1 9 (Z)	34 52 49 43	223.9 0.1 83.1	(Z) 1	42 67 67 (X)	
Shipments to all other customers: Wholesalers³ Retailers Manufacturers	503.7 5.9 1 307.7	23 (Z) 60	39 61 29	2 601.3 255.0 1 223.6	55 5 26	22 19 22	12 974.0 78.9 17.8	96 1 (Z) (Z)	32 52 64	
Federal, State, and local governments All other	31.9 208.4	1 10	73 73	23.7 23.1	1 (Z)	23 26	3.6 139.7	(Z) 1	67 65	
Resales ⁴ Adjustment ratio ⁵	(X) 53	7 (X)	(X) (X)	(X) 27	2 (X)	(X) (X)	(X) 45	(D) (X)	(X) (X)	
		083, Malt	(^)	2084, Wi	nes, branc	iy, and		tilled and		
Total product shipments ²	534.3	100	(X)	3 162.3	100	(X)	3 187.8	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets	=	-	(X) (X)	83.6 1.0	3 (Z)	43 45	(D)	(D)	(X) (X) (X)	
Other manufacturing establishments Other nonmanufacturing establishments Shipments oall other customers:	11.7 8.5	2 2	52 54	198.3	6 -	39 (X)	(D) -	(D)	(X) (X)	
Wholesalers ³ Retailers Manufacturers	146.1 - 358.6	27 - 67	80 (X) 32	2 522.3 248.6 37.2	80 8 1	21 47 74	1 847.9 (D) (D)	58 (D) (D)	(X)	
Federal, State, and local governmentsAll other	9.4	2	(X) 45	51.3 20.0	2	38 38	21.4 (D)	(D)	(X) (X) 25 (X)	
Resales ⁴ Adjustment ratio ⁵	(X) 29	(D) (X)	(X) (X)	(X) 18	1 (X)	(X) (X)	(X) -6	12 (X)	(X) (X)	
	2086, Bottle			2087, Flav			2091, Can			
	,	drinks			rups, n.e.c			d seafood		
Total product shipments ² Shipments to other establishments of same company:	19 611.7	100	(X)	4 925.6	100	(X)	862.2	100	(X)	
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	4 674.9 787.9 941.5	24 4 5 -	33 21 34 (X)	819.8 18.2 130.5	17 (Z) 3	48 48 52 (X)	(D) 4.2 - 149.4	(D) (Z) - 17	(X) 72 (X) 88	
Shipments to all other customers: Wholesalers ³	5 405.6 5 908.1	28 30	26 7	419.4 999.1	9 20	24 42	387.5 217.1	45 25	49 46	
Manufacturers	1 561.4 145.1 187.2	8 1 1	23 17 19	2 523.0 2.5 13.1	51 (Z) (Z)	35 39 32	(D) 34.8	(D) 4	(X) (X) 51	
Resales ⁴ Adjustment ratio ⁵	(X)	12 (X)	(X) (X)	(X) 23	1 (X)	(X) (X)	(X) 52	2 (X)	(X) (X)	

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[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendi	xes]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		resh or fr		2095, F	Roasted co	offee	2096, Pota	to chips a	nd similar
Total product shipments ²	5 103.7	100	(X)	5 466.6	100	(X)	5 005.8	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	192.5	4	40 58	512.5	9	50	313.0	6	36
Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers:	85.3 121.6	(Z) 2 2	45 94	142.6 1.6 -	(Z) -	50 86 (X)	184.1 6.3 250.0	(Z) 5	42 22 44
Wholesalers ³	3 797.4 745.9 93.1	74 15 2	21 25 43	2 118.9 2 023.5 192.6	39 37 4	28 40 1	1 942.5 1 911.1 306.9	39 38 6	19 31 17
Federal, State, and local governmentsAll other	19.9 28.8	(Z) 1	33 43	73.2 401.5	1 7	58 48	55.9 36.1	1 1	34 19
Resales ⁴ Adjustment ratio ⁵	(X) 27	11 (X)	(X) (X)	(X) 50	11 (X)	(X) (X)	(X) 8	5 (X)	(X) (X)
	2097, M	anufacture	ed ice	2098, Maca	roni and	spaghetti	2099, Food	preparation	ons, n.e.c.
Total product shipments ²	282.7	100	(X)	974.4	100	(X)	10 670.7	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	23.0 59.7 7.7	2 6 1	64 63 55 (X)	674.1 395.8 29.9 502.1	6 4 (Z) 5	36 42 22 44
Shipments to all other customers: Wholesalers ³	(S)	(S)	(X) (X)	751.7 119.1	77 12	31 61	4 259.0 3 924.9	40 37	19 31
Manufacturers	(S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	0.2 12.5 0.4	(Z) 1 (Z)	46 59 64	655.4 120.1 109.4	6	17 34 19
Resales ⁴	(X)	3	(×)	(X)	4	(X)	(X)	3	(X)
Adjustment ratio ⁵	(S)	(X)	(X)	21.8	(X)	(X)	40.7	(X)	(X)
	21, Tob	2111	l, Cigarett	es	2	121, Cigars	-		
Total product shipments ² Shipments to other establishments of same company:	20 152.6	100	(X)	16 746.2	100	(X)	204.1	100	(X)
Wholesale establishments (including sales offices) ³	332.2 825.9	2 - 4 -	21 (X) 14 (X)	(D) (D)	(D) (D)	(X) (X) (X) (X)	- - - -	- - - -	(X) (X) (X) (X)
Shipments to all other customers: Wholesalers3	13 816.8	69	9	12 829.6	77	10	112.0	55	68
Retailers	2 835.1 1 313.3 427.5	14 7 2	12 11 10	(D) - 422.3	(D) - 3	(X) (X) 10	91.0	45 - 1	63 (X) 68
Resales ⁴	601.9 (X)	3	11 (X)	(D) (X)	(D) (D)	(X) (X)	(X)	(D)	(X) (X)
Adjustment ratio ⁵	4	(X)	(X)	3	(X)	(X)	6	(X)	(X)
	2131, Che	wing and s tobacco	smoking	2141, Toba	cco stemr redrying	ning and	22, Text	tile mill pro	ducts
Total product shipments ² Shipments to other establishments of same company:	1 031.8	100	(X)	2 170.5	100	(X)	61 518.4	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(D)	(D)	(X) (X) (X) (X)	(D) - (D) -	(D) (D) -	(X) (X) (X) (X)	1 771.7 727.5 11 451.1 187.0	3 1 19 (Z)	19 35 10 75
Shipments to all other customers: Wholesalers ³ Retailers	(D)	(D) (D)	(X) (X)	(D)	(D)	(X) (X)	10 797.8 9 449.5	18 15	10 8
Federal, State, and local governments	(D) (D) 4.1	(D) (Z)	(X)	(D)	(D)	(X) (X)	25 549.8 274.9	42 (Z) 2	6 14
All other	13.1 (X)	(D)	18 (X)	(D) (X)	(D) 9	(X) (X)	1 309.2 (X)	2	13 (X)
Adjustment ratio ⁵	5	(X)	(X)	7	(X)	(X)	32	(X)	(X)
		oadwoven lls, cotton		2221, Bro mills, mann	oadwoven nade fiber		2231, Broad	dwoven fal wool	oric mills,
Total product shipments ²	5 405 .6	100	(X)	7 772.0	100	(X)	1 146.7	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	179.8 16.2 669.6	3 (Z) 12 -	52 39 23 (X)	246.8 - 2 546.7	3 33 -	41 (X) 20 (X)	(D) (D)	(D) (D)	(X) (X) (X) (X)
Shipments to all other customers: Wholesalers ¹	1 223.2	23	31	1 589.2	20	25	38.2	3	23
Manufacturers	724.8 2 447.7 5.0	13 45 (Z) 3	37 15 28	18.7 3 037.8 96.6	(Z) 39 1	87 14 30	793.0 71.2	(Z) 69 6	82 18 23
Resales ⁴ Adjustment ratio ⁵	139.3 (X) 20	3 (Z) (X)	32 (X) (X)	236.2 (X) 21	3 (Z) (X)	28 (X) (X)	(D) (X) 7	(D) 1 (X)	(X) (X) (X)
Conference at and of talls	20 1	(^)	(X)	211	(X) I	(^)	, 1	(^) 1	(^)

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explana-	ation of terms, s	see appendix	(es)						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
,	2241, Na	rrow fabri	c mills		omen's ho		2252,	Hosiery, n	.e.c.
Total product shipments ²	1 170.6	100	(X)	1 514.5	100	(X)	1 902.4	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices)³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	2.6 2.0	(Z) - (Z)	88 (X) 76 (X)	105.1 (D) 4.3	7 (D) (Z)	59 (X) 59 (X)	7.7 107.7 348.9	(Z) 6 18	41 97 52 (X)
Shipments to all other customers: Wholesalers ³ Retailers Manufacturers Federal, State, and local governments All other	42.9 42.9 1 034.5 42.0 3.6	4 4 88 4 (Z)	36 81 34 41 61	52.5 761.3 72.4 0.8 (D)	3 50 5 (Z) (D)	26 21 52 50 (X)	84.6 1 313.3 36.7 1.8 1.7	4 69 2 (Z) (Z)	20 20 36 44 43
Resales ⁴	(X)	1	(X)	(X)	(D)	(X)	(X) 38	2 (X)	(X) (X)
Adjustment ratio ⁵	55 Kni	(X)	(X)	14	(X)	(X)		ft knit fabi	
		t outerwe			t underwe			T 7	
Total product shipments ² Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	3 293.5 51.3 58.3 29.1	100 2 2 1	71 43 56 (X)	803.2	100	(X) (X) (X) (X) (X)	3 5 39. 2 237.0 0.2 522.7 22.4	7 (Z) 15	69 69 42 69
Shipments to all other customers: Wholesalers ³ Retailers	912.9 2 011.8	28 61	30	26.5 763.8	3 95	40 28	360.4 380.7	10 11	43 61
Manufacturers Federal, State, and local governments All other	212.9 10.6 6.6	6 (Z) (Z)	28 39 50	0.4 - 12.6	(Z) - 2	51 (X) 51	2 012.0 0.3 3.5	57 (Z) (Z)	28 67 45
Resales ⁴ Adjustment ratio ⁵	(X)	2 (X)	(X)	(X) 23	(D) (X)	(X) (X)	(X) 48	(Z) (X)	(X) (X)
, and the second	2258, Lac	32 (X) (X)		2259, Knitting mills, n.e.c.				shing plant	
Total product shipments ²	2 106.5	100	(X)	222.4	100	(X)	1 604.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	30.5 (Z) 159.4	2 (Z) 10 -	92 76 45 (X)
Shipments to all other customers: Wholesalers ³	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	161.0 31.0 1 212.7 2.3 7.6	10 2 76 (Z) (Z)	59 59 35 91 66
Resales ⁴	(X)	(Z)	(X)	(X)	4	(X)	(X)	(Z)	(X)
Adjustment ratios		inishing p	lants,	(S) 2269, Finis	(X) shing plan	ts, n.e.c.	57.9 2273, C	(X)	(X)
Total product shipments ²	3 537.3	100	(X)	1 033.2	100	(X)	9 291.3	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	184.3 0.1 698.4	5 (Z) 20	55 61 30 (X)	110.6 - 226.2	11 22	61 (X) 50 (X)	499.8 1.3 1 455.4	5 (Z) 16	42 49 46 (X)
Shipments to all other customers: Wholesalers3	378.8 163.8 2 109.0 0.4 2.4	11 5 60 (Z) (Z)	40 47 39 61 61	34.7 71.4 549.2 0.9 40.1	3 7 53 (Z) 4	60 66 32 66 44	3 319.3 2 125.4 1 395.6 26.0 468.4	36 23 15 (Z) 5	89 70 67 27 89
Resales ⁴	(X)	9	(X)	(X)	2	(X)	(X) 24	1 (X)	(X) (X)
Adjustment ratio ⁵	37	(X)	(X)	28 2282, Thro	(X)	winding.			
	2281, Ya	rn spinnin	g mills	2202, 11110	mills	Willamg	2284	, Thread m	ills
Total product shipments ²	7 711.2	100	(X)	2 243.8	100	(X)	677.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	3.2 3 011.3 -	(Z) 39 -	(X) 59 86 (X)	394.8 -	- - 18 -	(X) (X) 10 (X)	5.5 - 65.9 -	1 - 10 -	72 (X) 53 (X)
Shipments to all other customers: Wholesalers	441.2 223.8 3 998.2 33.5 (X)	6 3 52 - (Z) (Z)	58 41 87 (X) 78 (X)	332.4 202.7 1 304.3 1.3 8.4 (X)	15 9 58 (Z) (Z) (Z)	22 43 13 78 28 (X)	589.6 0.2 15.7	87 (Z) 2 (Z)	(X) (X) 31 70 59 (X)
Adjustment ratio ⁵		(X)	(x)	4	(x)	(X)	40	(X)	(X)

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con. [For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]									
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		ated fabrioubberized	cs, not	2296, Tire	cord and	fabrics	2297, N	onwoven	fabrics
Total product shipments ²	1 323.4	100	(X)	896.6	100	(X)	2 423.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	20.2	2	57			(X)	89.8	4	52
Retail stores and outlets Other manufacturing establishments	178.5	13	(X)	482.2	54	(X) 38	29.1	1	(X) 46
Other nonmanufacturing establishments	0.2	(Z)	66	-	-	(X)	-	-	(X)
Shipments to all other customers: Wholesalers3	111.3	8	43	18.6	2	70	499.7	21	30
Retailers	16.8 977.8	74	43 23	386.8	43	(X) 45	234.6 1 445.6 1.2	10 60	43 39 66
All other	4.3 14.3	(Z) 1	48 37	8.9	1	(X) 70	123.5	(Z) 5	59
Resales ⁴	(X)	3	(X)	(X)	(D)	(X)	(X)	(D)	(X)
Adjustment ratio ⁵	43	(X)	(X)	49	~ (X)	(X)	23, Appare	(X)	er textile
	2298, Co	2298, Cordage and twine			tile goods	s, n.e.c.		products	
Total product shipments ² Shipments to other establishments of same company:	475.4	100	(X)	1 424.5	100	(X)	6 2 119.6	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	(S) (S)	(S)	(X) (X)	-	_	(X) (X)	1 959.4 3 883.6	3	21 30
Other manufacturing establishments Other nonmanufacturing establishments	(S) (S)	(S) (S) (S)	(X)	238.6	17 -	80 (X)	4 016.1 178.8	6 (Z)	25 73
Shipments to all other customers: Wholesalers³			` '	47.4	3		7 607.9		21
Windesders — Retailers — Manufacturers — Manuf	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X)	47.4 59.3 992.3	4 70	71 22 51	35 640.4 6 534.3	12 57 11	7 11
Federal, State, and local governmentsAll other	(S)	(S) (S) (S)	(X) (X)	3.4 83.5	(Z) 6	75 65	933.8 1 365.2	2 2	38 23
Resales ⁴	(X)	9	(X)	(X)	7	(X)	(X)	3	(X)
Adjustment ratio ⁵	(S)	(X)	(X)	16	(X)	(X)	49	(X)	(X)
	2311, Men's and boys' suits and coats			2321, Men'	s and boy	s' shirts		len's and ar and nig	
Total product shipments ²	2 877.0	100	(X)	3 842.2	100	(X)	996.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	421.9	15	57	88.6	2	92	3.7	(Z)	1
Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	153.6 241.0	5 8 -	75 63 (X)	12.3 441.9 6.0	(Z) 12 (Z)	44 39 50	(D) 18.7 0.3	(Z) (D) 2 (Z)	(X) 1 1
Shipments to all other customers: Wholesalers3	107.8	4	89	541.7	14	41	(D)	(D)	(X)
Retailers	1 815.8 105.4	63 4	33 47	2 277.8 347.7	59 9 1	25 40	823.0 14.6	83 1 (D)	1 (X)
All other	3.3 28.4	(Z) 1	75 82	55.4 70.7	2	77 45	(D) 5.2	1	1
Resales ⁴ Adjustment ratio ⁵	(X) 56	(D) (X)	(X) (X)	(X) 25	6 (X)	(X) (X)	(X) -8	(Z) (X)	(X) (X)
,	2323, N	len's and I		2325, M	en's and l	boys'	2326, Mer	's and bo	
Total product attampants?		eckwear	20		rs and sla			clothing	(V)
Total product shipments ² Shipments to other establishments of same company:	421.5	100	(X)	5 474.4	100	(X)	1 419.9	100	(X)
Wholesale establishments (including sales offices) ³	(S) (S) (S) (S)	(S) (S) (S)	(X) (X)	659.3 41.9	12 1	51 55	165.0 (D)	12 (D)	37 (X) (X)
Other manufacturing establishments Other nonmanufacturing establishments	(S) (S)	(S) (S)	(X) (X)	57.5 -	1 -	57 (X)	(D) -	(D) -	(×)
Shipments to all other customers: Wholesalers3	(S)	(S) (S)	(X)	788.5	14	47	128.8	9	38
Manufacturers	(S) (S)	(S)	(X) (X)	3 629.6 231.9	66 4	22 44	1 025.0 80.8	72 6	28 47
Federal, State, and local governmentsAll other	(S) (S)	(S) (S)	(X) (X)	43.3 22.5	(Z)	53 96	(D) 8.1	(D) 1	(X) 69
Resales ⁴ Adjustment ratio ⁵	(X) (S)	6 (X)	(X) (X)	(X) 34	(Z) (X)	(X) (X)	(X) 2	2 (X)	(X) (X)
	2329, N	len's and l	ooys'	2331, Wom	en's, miss	ses', and	2335, Won	nen's, mis	ses', and
	clo	thing, n.e.d	>.	juniors' b	ouses and	snirts	juni	ors' dress	es
Total product shipments ² Shipments to other establishments of same company:	2 256.4	100	(X)	4 178.1	100	(X)	5 346.9	100	(X)
Wholesale establishments (including sales offices) ³	6.8 195.4	(Z) 9	82 76	(S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X)
Other manufacturing establishments Other nonmanufacturing establishments		_	(X) (X)	(S) (S)	(S) (S) (S) (S)	(X) (X) (X)	(S) (S)	(S) (S) (S)	(X) (X) (X)
Shipments to all other customers: Wholesalers3	176.2	8	50	(S)		(X)	(S)	(S)	(X)
RetailersManufacturers	1 858.4 (D)	82	1 (X)	(S) (S)	(S) (S) (S) (S)	(X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X)
Federal, State, and local governmentsAll other	(D) 10.2	(D) (D) (Z)	(X)	(S) (S)	(S) (S)	(x) (x)	(S) (S)	(S) (S)	(X) (X)
Resales ⁴	(X)	(D)	(X)	(X)	2	(X)	(X)	1 (X)	(X) (X)
Adjustment ratio ⁵	-8	(X)	(X)	(S) I	(X)	(X)	(S) I	(X) I	(^)

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con. [For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendi	xes]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	2337, Won juniors'	nen's, miss suits and		2339, Wom juniors'	nen's, miss outerwear		2341, Wom	nen's and o	children's
Total product shipments ²	3 884.9	100	(X)	5 952.6	100	(X)	2 591.4	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Hetail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	77.4 614.4 55.7	1 10 1 -	77 43 61 (X)	207.2 286.2 68.1 15.9	8 11 3 1	54 49 79 54
Shipments to all other customers: Wholesalers ³ Retailers Manufacturers Federal, State, and local governments All other	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	524.1 4 337.5 310.1 3.1 30.4	9 73 5 (Z)	51 22 27 46 53	171.1 1 636.2 91.1 20.6 94.9	7 63 4 1	49 21 26 42 92
Resales ⁴	(X)	9	(X)	(X)	2	(X)	(X)	2	(X)
Adjustment ratio5	(S)	(X)	(X)	52	(X)	(X)	29	(X)	(X)
		2342, Brassieres, girdles allied garments			lats, caps, millinery	and		is' and chi es and blo	
Total product shipments ²	983.1	100	(X)	604.1	100	(X)	1 607.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	404.0 131.9	- 41 13 -	(X) 41 66 (X)	- - -	- - -	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Shipments to all other customers: Wholesalers³ Retailers Manufacturers Federal, State, and local governments All other	6.1 429.3 11.0 0.9	1 44 1 (Z)	48 37 66 85	167.8 401.9 22.5 2.5	28 67 4 (Z)	71 55 59 74	(S) (S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X) (X)
Resales ⁴	(X)	5	(X) (X)	9.4 (X)	2 5	65 (X)	(X)	(S)	(X)
Adjustment ratio ⁵	2369, Girls' and children's outerwear, n.e.c.		60 237 1	, Fur goo	ds (X)	(S) 2381, Fab	ric dress a gloves	nd work	
Total product shipments ²	1 959.8	100	(X)	399.2	100	(X)	192.4	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(D) (D) -	(D) (D) -	(X) (X) (X) (X)
Shipments to all other customers: Wholesalers	(9) (9) (9) (9)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	44.3 52.6 (D)	23 27 (D)	75 65 (X) (X) (X)
All other	(S) (X)	(S) 1	(X) (X)	(S) (X)	(S) 4	(X) (X)	- (X)	- 4	(X) (X)
Adjustment ratio ⁵	(S)	(X)	(X)	(S)	(X)	(X)	-19	(X)	(X)
	2384, Rol	gowns	ressing	2385, Wate	erproof ou	terwear	2386, Leat	ner and sh clothing	eep-lined
Total product shipments ² Shipments to other establishments of same company:	502. 3	100	(X)	318.1	100	(X)	175.1	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers:	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	- - -	-	(X) (X) (X) (X)
Wholesalers ³	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	8888 88888	(S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	71.8 90.9 7.6 (Z) 4.7	41 52 4 (Z)	91 60 45 (X) 81
Resales ⁴ Adjustment ratio ⁵	(X) (S)	8 (X)	(X) (X)	(X) (S)	10 (X)	(X) (X)	(X) (Z)	12 (X)	(X) (X)
		Apparel b		2389,	Apparel a	nd	2391, Curt		
Table and the state of the stat				- 1	sories, n.e				
Total product shipments ² Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	546.8 (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	458.5 (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X) (X)	1 394.9 (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X) (X)
Shipments to all other customers: Wholesalers ³ Retailers Manufacturers Federal, State, and local governments	(S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	× × × × × × × × × × × × × × × × × × ×	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)
Resales ⁴ Adjustment ratio ⁵ See footnotes at end of table	(X)	11 (X)	(X) (X) (X)	(X) (S)	(S) 5 (X)	(X) (X) (X)	(S) (X) (S)	(S) 4 (X)	(×) (×)

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

to meaning of abbreviations and symbols, see introductory text. For explan	nation of terms,	see appendi	xesj			,			
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	2392, Hous	efurnishin	gs, n.e.c.	2393,	Textile ba	ags	2394, Ca	anvas and products	related
Total product objectors									
Total product shipments ² Shipments to other establishments of same company:	4 428.9	100	(X)	544.2	100	(X)	983.1	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	(S)	(S)	(X) (X)	(S) (S)	(S) (S)	(X)	(S) (S)	(S)	(X)
Other manufacturing establishmentsOther nonmanufacturing establishments	(S)	(S) (S) (S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X) (X) (X)	(S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Shipments to all other customers:					, ,		(0)		
Wholesalers3Retailers	l isi	(S) (S) (S) (S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S)	(X) (X) (X) (X) (X)
Manufacturers	(S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S)	(X)	(S) (S)	(S) (S) (S)	(X) (X)
All other	1	(S)	(X) (X)	(S) (X)	(S) 9	(X) (X)	(S) (X)	(S) 5	(X) (X)
Adjustment ratio ⁵		(X)	(x)	(x)	(X)	(x)	(S)	(X)	(X)
				2396, Autor				Schiffli ma	
	2395, Plea	iting and s	stitening		rimmings			nbroiderie	
Total product shipments ²	611.0	100	(X)	4 506.1	100	(X)	251.1	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	0.1	(Z)	1	(S)	(S)	(X)
Retail stores and outlets	(S)	(S) (S) (S) (S)	(X) (X)	2 617.9	- 58	(X) 38	(S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Other nonmanufacturing establishmentsShipments to all other customers:	1	(S)	(×)	-	-	(X)	(S)	(S)	(X)
Wholesalers3Retailers	(S)	(S) (S)	(X) (X)	110.9 295.7	2	34 51	(S) (S)	(S)	(X)
Federal, State, and local governments	(S) (S) (S) (S) (S)	(S) (S)	(X) (X)	1 053.9 1.0	23 (Z)	27	(S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)
All other		(S)	(X)	426.5	9	37	(S)		
Resales ⁴ Adjustment ratio ⁵	(X) (S)	3 (X)	(X) (X)	(X) 36	2 (X)	(X) (X)	(X) (S)	2 (X)	(X) (X)
		2399, Fabricated textile			nber and v				
		ducts, n.e.			roducts		24	11, Loggin	9
Total product shipments ²	2 411.5	100	(X)	67 079.7	100	(X)	10 583.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	9.6	(Z)	88	4 841.5	7	19	(S)	(S)	(X)
Other manufacturing establishments	6.6	(Z)	(X) 33	507.6 8 211.6	1 12	40 30	(S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Other nonmanufacturing establishmentsShipments to all other customers:	137.6	6	94	314.2	(Z)	80	(S)	(S)	(X)
Wholesalers3 Retailers	338.6 396.6	14 16	37 35	26 887.5 8 775.2	40 13	9 12	(S)	(S)	(X)
Manufacturers	1 313.8 104.4	54	24 30	13 475.3 323.9	20	10	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)
All Other	104.3	4	36	3 742.9	(Z) 6	22			
Resales ⁴ Adjustment ratio ⁵	(X) 30	4 (X)	(X) (X)	.(X) 62	3 (X)	(X) (X)	(X) (S)	5 (X)	(X) (X)
		mills and		2426, Hard				Special pro	
		ls, genera			looring m		sáv	vmills, n.e.	c.
Total product shipments ²	16 9 64.5	100	(X)	1 650.8	100	(X)	145.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	235.8	14	64	(S)	(S)	(X)
Retail stores and outlets	(S) (S)	(S) (S) (S)	(X) (X) (X)	64.3	4	(X) 79	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Shipments to all other customers:	(S)	(S)	(X)	42.9	3	90	(5)	(5)	
Wholesalers ³ Retailers	(S) (S) (S) (S)	(S) (S) (S)	(X) (X)	912.9 103.1	55 6	· 53 85	(S) (S)	(S) (S)	(X) (X) (X) (X) (X)
Manufacturers	(S) (S)	(S)	(X) (X)	281.9 0.1	17 (Z)	33 92	(S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)
All other	(S) (X)	(S)	(X)	9.8 (X)	` í 3	66 (X)	(S) (X)	(S)	(X) (X)
Adjustment ratio ⁵	(S)	(X)	(X) (X)	49	(X)	(X)	(A) (S)	(X)	(X)
	243	1, Millworl		2434, Wood	1 kitchen	rahinets	2435, Hard		neer and
				2101, 11001				plywood	
Total product shipments ² Shipments to other establishments of same company:	8 800.9	100	(X)	4 216.5	100	(X)	1 834.5	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	1 151.7	13	42	(S)	(S)	(X) (X)	411.0	22	64 (X)
Other manufacturing establishments Other nonmanufacturing establishments	110.5 344.6	1 4	60 42 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)	215.1	12	(X) 51 (X)
Shipments to all other customers:		_			i		_		
Wholesalers ³ Retailers Manufacturers	5 742.0 405.1	65 5 9	30 24 33	(S) (S)	(S) (S)	(X) (X)	428.4 108.1	23 6	28 47
Manufacturers	799.4	9 (Z) 3	65	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X)	651.0 3.2	35 (Z)	26 85
All other	247.2 (X)	3 4	36 (X)	(S) (X)	(S) 2	(X) (X)	17.7 (X)	7	40 (X)
Adjustment ratio ⁵	56	(X)	(x)	(S)	(X)	(x)	32	(X)	(X)

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]										
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	
		wood ven	eer and		tructural v bers, n.e.		2441, Naiie	ed wood be shook	xes and	
Total product shipments ²	4 383.0	100	(X)	1 887.6	100	(X)	347.6	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	513.8 8.8 89.6	12 (Z) 2 -	47 66 45 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	
Shipments to all other customers: Wholesalers³ Retailers Manufacturers Federal, State, and local governments	2 806.9 249.0 622.0 0.1	64 6 14 (Z)	18 31 26 66	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	
All other	92.8 (X)	1	43 (X)	(S) (X)	(S) 4	(X)	(S) (X)	(S) 5	(X)	
Adjustment ratio ⁵	44	(X)	(X)	(S)	(X)	(X)	(S)	(X)	(X)	
	2448, Woo	d pallets a		2449, Wood				Mobile ho		
Total product shipments ² Shipments to other establishments of same company:	1 437.0	100	(X)	218.6	100	(X)	4 044.4	100	(X)	
Wholesale establishments (including sales offices) ² Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	259.7 41.7 14.2	6 1 (Z)	40 48 92 (X)	
Shipments to all other customers: Wholesalers Retailers Manufacturers Federal, State, and local governments All other	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	722.5 2 902.7 33.8 31.7 38.2	18 72 1 1	27 20 38 46 45	
Resales ⁴ Adjustment ratio ⁵	(X) (S)	2 (X)	(X) (X)	(X) (S)	6 (X)	(X) (X)	(X) 30	1 (X)	(X) (X)	
	2452, Pre	fabricated ouildings			ood prese		2493, Re	constituted products		
Total product shipments ²	2 334.3	100	(X)	2 151.9	100	(X)	2 896.4	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ^a Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	317.3 35.2 287.4	11 1 10 -	88 88 83 (X)	
Shipments to all other customers: Wholesalers³ Retailers Manufacturers Federal, State, and local governments All other	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	1 0 91.1 243.8 871.2 2.8 47.8	38 8 30 (Z)	38 42 59 58 68	
Resales ⁴	(X)	2	(X)	(X)	1	(X)	(X)	2	(X)	
Adjustment ratios	(S) 2499, Woo	(X)	(X)	(S)	(X)	(X)	57 2511, V	(X) Vood hous	ehold	
			3, 11.6.6.	,		Atures		furniture		
Total product shipments ² Shipments to other establishments of same company:	3 183.1	100	(X)	35 856.3	100	(X)	7 454.2	100	(X)	
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers;	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	3 721.8 797.4 824.9 69.8	10 2 2 (Z)	27 39 38 53	168.7 282.5 34.9 36.8	2 4 (Z) (Z)	83 58 52 71	
Wholesalers ^a	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	6 468.9 17 707.2 2 293.2 923.3 3 049.9	18 49 6 3 9	10 9 14 20 21	924.7 5 585.5 250.2 61.4 109.5	12 75 3 1	29 16 39 41 38	
Resales ⁴ Adjustment ratio ⁵	(X) (S)	4 (X)	(X) (X)	(X) 52	4 (X)	(X) (X)	(X) 51	5 (X)	(X) (X)	
	2512, Upho	Istered ho	usehold		etal house urniture	hold		Mattresses edsprings	and	
Total product shipments ²	4 911.8	100	(X)	1 947.3	100	(X)	2 693. 5	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	121.9 182.7 3.1	2 4 (Z)	63 58 47 (X)	48.0 - 42.7 31.2	2 - 2 2	57 (X) 52 82	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	
Shipments to all other customers: Wholesalers ³ ————————————————————————————————————	533.0 3 684.9 334.4 23.5	11 75 7 (Z)	34 12 23 44	82.8 1 697.5 35.3	4 87 2	41 37 63 (X) 74	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	
All other	28.3 (X) 28	1 1 (X)	30 (X) (X)	9.8 (X) 50	1 3 (X)	74 (X) (X)	(S) (X) (S)	(S) 2 (X)	(X) (X) (X)	

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con. [For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendi	(es]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		od televis		2519, Hou	sehold fu n.e.c.	rniture,	2521, Wo	od office f	urniture
Total product shipments ²	371,8	100	(X)	426.4	100	(X)	2 016.5	100	(X)
Shipments to other establishments of same company:				(5)	(0)		(0)	(5)	(%)
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments	23.7	6 - 7	80 (X) 81	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S)	(S) (S) (S)	XXXX
Other nonmanufacturing establishments	-	-	(X)	(S)	(s)	· (X)	(S)	(s)	(X)
Shipments to all other customers: Wholesalers3	11.4	3	74	(S)	(S)	(X)	(S)	(S)	X
Retailers	100.1 202.0	27 54	73 51 74	(S) (S) (S) (S)	(S) (S) (S)	\$\$\$\$\$	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	8888
All other	1.4 8.4	(Z) 2	74	(S)	(S)	(X) (X)			
Resales ⁴ Adjustment ratio ⁵	(X) 55	(Z) (X)	(X) (X)	(X) (S)	1 (X)	(X) (X)	(X) (S)	5 (X)	(X) (X)
Aujustinent ratio-	2522, Offic	L		`	blic buildi			od partition	
		wood	, 0		ed furnitu			fixtures	
Total product shipments ²	5 243.0	100	(X)	2 029.8	100	(X)	2 778.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	1 563.9	30	47	(S)	(S)	(X)	(S)	(S)	(X)
Retail stores and outlets	3.7 59.3 0.4	(Z) 1 (Z)	72 61 74	(S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X)	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Shipments to all other customers:				(3)					
Wholesalers³ Retailers	1 104.7 943.7	21 18	21 24	(S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S) (S)	(X) (X)
Manufacturers Federal, State, and local governments	389.7 265.0	7 5 17	38 30	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X)	(S) (S) (S)	(S) (S)	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
All other	912.5 (X)	2	39 (X)	(S)	3	(X)	(X)	3	(X)
Adjustment ratio5	40	(X)	(X)	(S)	(X)	(X)	(S)	(X)	(X)
		2542, Partitions and fixtures, except wood		2591, Drapery hardware and blinds and shades			2599, Furi	niture and n.e.c.	fixtures,
Total product shipments ²	2 434.0	100	(X)	1 671.9	100	(X)	1 878.1	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices)3	987.0	41	51	(S)	(S)	(x)	(S)	(S)	(X)
Retail stores and outlets	0.4	(Z) (Z)	85 64 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	8888	(S) (S) (S)	(S) (S) (S)	(X) (X) (X)
Shipments to all other customers: Wholesalers3	474.7	20	28	(S)	(S)	(X)	(S)	(S)	(X)
Retailers	567.3 247.9	23 10	27 28 37	(S) (S)	(S) (S) (S)	(X) (X)	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X) (X) (X)
Federal, State, and local governmentsAll other	94.6 60.5	4 2	34	(S) (S)	(S)	(X) (X)	(S)	, ,	' '
Resales ⁴ Adjustment ratio ⁵	(X) 27	5 (X)	(X) (X)	(X) (S)	9 (X)	(X) (X)	(X) (S)	6 (X)	(X) (X)
	26, Paper			` ` ` ` `	1, Pulp mil	/		I, Paper m	
Total product shipments ²	105 399.0	100	(X)	5 356.7	100	(X)	27 121.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices)3	2 919.6	3	31		_		660.0	2	28
Retail stores and outlets Other manufacturing establishments	505.7 14 033.2	(Z) 13	36 12	7.5 1 786.4	(Z) 33	(X) 64 24	(Z) 4 576.1	(Z) 17	57 32
Other nonmanufacturing establishmentsShipments to all other customers:	443.8	(Z)	63	-	-	(X)	-	-	(X)
Wholesalers ³ Retailers	22 509.6 10 268.4	21 10	11 16	254.1	5 -	37 (X) 24	8 912.3 246.7	33 1	20 34
ManufacturersFederal, State, and local governments	45 031.0 722.6	43	6 16	2 014.2	38	24 (X) 33	11 350.1 156.2	42 1	20 34 13 43 40
All other	8 965.1	9 2	16 (X)	1 294.4 (X)	24 (D)	33 (X)	1 220.2 (X)	(Z)	40 (X)
Adjustment ratio ⁵		(X)	(X)	41	(X)	(×)	33	(X)	(X)
	2631, P	aperboard	mills	2652, Se	tup paper boxes	board		rugated a	
Total product shipments ²	13 697.1	100	(X)	517.9	100	(X)	15 602.2	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	60.7	(Z)	65	(S)	(S)	(X)	254.3	2	73
Other manufacturing establishments	4 598.0	34	(X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)	132.5 1 684.4	11	94 29 (X)
Other nonmanufacturing establishmentsShipments to all other customers:	_	-	(X)	(S)	(S)	(X)	-	-	
Wholesalers ³ Retailers	1 061.7 123.8	8	33 46	(S) (S)	(S) (S)	(X) (X)	1 098.8 1 237.7	7 8	21 47
ManufacturersFederal, State, and local governments	7 354.6 45.4	54 (Z) 3	13 76	(S) (S) (S)	(S) (S) (S)	(X) (X)	10 641.9 48.7	68 (Z) 3	12 58
All other	452.9 (X)	(D)	24 (X)	(S) (X)	(S) 2	(X) (X)	503.9 (X)	3 2	34 (X)
Adjustment ratio ⁵		(X)	(X)	(S)	(X)	(x)	46	(X)	(X)

[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendix	(es]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	2655, Fiber cans, drums, and similar products			2656, Sanitary food containers			2657, Folding paperboard boxes		
Total product shipments ²	1 493.9	100	(X)	1 959.6	100	(X)	5 522.1	100	(X)
Shipments to other establishments of same company:	1 450.5		(2)	1 303.0	100	(^)	0 022		
Wholesale establishments (including sales offices) ³	(S)	(S)	(X) (X)	22.8	1 -	83 (X)	11.9	(Z)	83 (X)
Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S)	(S) (S) (S) (S)	(X) (X)	22.1 14.1	1	(X) 34 55	433.1 157.2	8 3	(X) 34 84
Shipments to all other customers:	(0)	(0)	(79)	14.1	·		107.2		
Wholesalers ³ Retailers	(S)	(S)	(X) (X)	7 0 5.5 8 0 1.1	36 41	34 37	806.9 491.0	15	4 0 37
Manufacturers	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X)	382.9 9.2	20	29 39	3 573.8 15.5	65 (Z)	29 53
All other		(S)	(X)	1.9	(Z) (Z)	66	32.7	1	66
Resales ⁴	(X)	1	(X)	(X)	4	(X)	(X)	1 (7)	(X) (X)
Adjustifier (allo-	(S)	(X)	(X)	25	(X)	(X)	46	(X)	
		aper coate ted, packa			nper coate nated, n.e.		2673, Bags plastics, laminated, and coated		
Total product shipments ²	2 460.1	100	(X)	5 497.7	100	(X)	3 936.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(D)	(D)	(X)	1 125.3	20	53	10.9	(Z)	55
Retail stores and outlets	(D)	(D)	(X) (X) (X)	360.6	7	(X) 29	164.1 41.9	4	34 28
Other nonmanufacturing establishments	-	-	(X)	-	-	(X)	0.7	(Z)	75
Shipments to all other customers: Wholesalers3	466.2	19	30	1 041.8	19	30	1 116.1	28	19
RetailersManufacturers	59.2 1 0 14.1	2 41	28 15	132.4 2 266.2	2 41	28 15	915.1 1 636.9	23 42	23 18
Federal, State, and local governmentsAll other	15.5 (D)	1 (D)	36 (X)	34.7 536.8	1 10	36 54	27.7 23.0	1 1	26 38
Resales ⁴	(X)	1	(X)	(X)	6	(X)	(X)	4	(X)
Adjustment ratio ⁵	41	(X)	(X)	35	(X)	(X)	32	(X)	(X)
	2674, Bags uncoated paper and multiwall			2675, Die-cut paper and board			2676, Sani	tary paper	products
Total product shipments ²	2 360.6	100	(X)	1 701.1	100	(X)	11 171.7	100	(X)
Shipments to other establishments of same company:									
Wholesale establishments (including sales offices) ³ Retail stores and outlets	6.5 98.4	(Z) 4	55 34	37.2	2 -	64 (X)	10.1	(Z)	57 (X) 5 0
Other manufacturing establishmentsOther nonmanufacturing establishments	25.1 0 .4	(Z)	28 75	21.5	1 -	75 (X)	1.0	(Z)	50 (X)
Shipments to all other customers: Wholesalers3	669.3	28	19	382.4	22	40	4 538.8	41	29
RetailersManufacturers	548.8 981.6	23	23 18	527.2 439.8	31 26	35 4 0	3 957.7 63.0	35	29 37 43
Federal, State, and local governments	16.6	1	26 38	97.9	6 11	62 58	154.1 2 447.1	1 22	43 33 51
Resales ⁴	13.8 (X)	2	(X)	195.1 (X)	3	(X)	(X)	1	(X)
Adjustment ratios	44	(X)	(X)	58	(X)	(X)	32	(X)	(X)
	2677	, Envelop	es	2678, Stationery products			2679, Converted paper products, n.e.c.		
Total product shipments ²	2 499.5	100	(X)	1 115.2	100	(X)	3 385.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	152.9	6	82	8.7	1	34	(D)	(D)	(X)
Retail stores and outlets Other manufacturing establishments	60.3	2	(X) 48	103.1 36.9	9	9 0 72	(D)	(D)	(X) (X) (X)
Other nonmanufacturing establishments	-	-	(X)	-	-	(X)	3.1	(Z)	'
Wholesalers ³	693.8 332.7	28 13	27 28	154.4 516. 0	14 46	29 23	557.2 379.1	16 11	1
ManufacturersFederal, State, and local governments	384.5 74.9	15	44 33	232.9 21.4	21	28 35	1 0 78.3	32 (Z)	10 44
All other	800.3	32	35	41.8	4	29	(D)	(D)	(X)
Resales ⁴	(X) 55	4 (X)	(X) (X)	(X) 16	8 (X)	(X) (X)	(X) -13	7 (X)	(X) (X)
	27, Printir	ng and pul		2711.	Newspap		272	1, Periodic	als
Total product shipments ²		· · · · ·						100	
Shipments to other establishments of same company:	131 197.5	100	(X)	30 494.7	100	(X)	16 492.1		(X)
Wholesale establishments (including sales offices) ³	1 541.6 362.2	1 (Z)	23 31	417.5 42.4	1 (Z)	35 57	(S) (S)	(S) (S)	· (X)
Other manufacturing establishments Other nonmanufacturing establishments	1 1 0 2.4 1 143.7	1	40 36	3.1 132.4	(Z) (Z) (Z)	6 0 71	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)
Shipments to all other customers: Wholesalers ³	19 912.9	15	11			22			(X)
Retailers Manufacturers Manufa	26 178.1 21 912.8	15 2 0 17	11 13 10	1 137.5 5 9 0 9.6 1 929.5	19	20 18	(S) (S)	(S) (S) (S)	(X) (X) (X) (X) (X)
Federal, State, and local governments	2 336.8 56 707.0	2 43	23 9	1 929.5 1 0 .9 20 911.7	6 (Z) 69	41 18	(S) (S) (S)	(S) (S)	(X)
Resales ⁴	56 707.0 (X)	2	(X)	20 911.7 (X)	(Z)	(X)	(S)	1	(X)
Adjustment ratio ⁵	57	(x)	(X)	36	(x)	(X)	(S)	(x)	(X)

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendi	xes]							
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	
	2731, E	Book publi	shing	2732, Book printing			2741, Miscellaneous publishing			
Total product shipments ²	11 629.9	100	(X)	3 240.9	100	(X)	8 176.6	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	30.2 91.6 - 46.6	(Z) 1 - (Z)	47 78 (X) 73	4.3 4.2 30.2	(Z) (Z) 1	58 68 45 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	
Shipments to all other customers: Wholesalers ³	2 971.4 1 554.6 901.1 335.8 5 698.7	26 13 8 3 49	26 26 53 46 22	987.5 967.1 792.6 91.9 363.3	30 30 24 3	22 42 27 33 38	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	
Resales ⁴	(X)	2	(X)	(X)	1	(X)	(X)	1:	(X)	
Adjustment ratio ⁵	54	(X)	(X)	34	(X)	(X)	(S)	(X)	(X)	
	2752, Commercial printing, lithographic			2754, Commercial printing, gravure			2759, Commercial printing, n.e.c.			
Total product shipments ²	32 143.1	100	(X)	2 740.2	100	(X)	9 112.0	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	56.2 -	- 2 -	(X) (X) 47 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	
Shipments to all other customers: Wholesalers3	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	479.9 1 417.3 652.5 0.7 133.6	18 52 24 (Z) 5	37 63 29 49 57	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	
Resales ⁴	(X)	2	(X)	(X)	(Z)	(X)	(X)	3	(X)	
Adjustment ratio ⁵	(S)	anifold bus	(X)	46	(X)	(X)	(S)	(X) Blankbook	(X)	
	2701, 1916	forms	5111635	2771, (Greeting c	ards	looseleaf binders			
Total product shipments ²	6 787.7	100	(X)	2 034.6	100	(X)	2 670.6	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	262.1 7.6 18.3	(Z) (Z) -	50 68 58 (X)	0.8 47.9 - -	(Z) 2 - -	69 61 (X) (X)	50.5 19.2	2 - 1 -	73 (X) 53 (X)	
Shipments to all other customers: Wholesalers3	1 040.0 1 031.7 431.0 139.0 3 857.9	15 15 6 2 57	23 30 23 23 35	59.4 1 751.2 69.5 3.3 102.5	3 86 3 (Z) 5	41 53 52 50 42	2 096.4 160.6 96.2 27.7 219.8	79 6 4 1 8	54 44 47 73 39	
Resales ⁴ Adjustment ratio ⁵	(X)	5	(X)	(X)	17	(X)	(X) 53	4	(X)	
/ Agostinent ratio	2789, B	ookbinding	(X)	48	(X)	(X)		(X)	(X)	
	rel	ated work		2791, Typesetting			2796, Platemaking services			
Total product shipments ² Shipments to other establishments of same company:	1 149.5	100	(X)	2 034.7	100	(X)	2 490.9	100	(X)	
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X) (X)	
Shipments to all other customers: Wholesalers3	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	
Resales ⁴	(X)	2	(X)	(X)	1	(X)	(X)	1	(X)	
Adjustment ratio ⁵	(S)	nicals and	(X)	(S)	(X)	(X)	(S)	(X)	(X)	
		products	allieu	2812, Alka	ilies and c	hlorine	2813, I	ndustrial g	jases	
Total product shipments ² Shipments to other establishments of same company:	214 617.8	100	(X)	2 033.5	100	(X)	2 631.0	100	(X)	
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers:	23 997.5 3 468.8 23 608.6 852.4	11 2 11 (Z)	11 22 8 16	12.7 33.5 -	1 - 2 -	42 (X) 29 (X)	196.9 (D) 185.3 -	7 (D) 7 -	35 (X) 14 (X)	
Wholesalers ³ Retailers Manufacturers Federal, State, and local governments All other	39 434.7 22 798.4 84 729.1 2 806.5 12 921.8	18 11 39 1 6	5 9 4 8 7	511.9 1 454.9 16.9 3.5	25 - 72 1 (Z)	30 (X) 30 66 30	396.0 (D) 1 603.8 46.7 184.8	15 (D) 61 2 7	11 (X) 12 18 12	
Resales ⁴ Adjustment ratio ⁵	(X)	5 (X)	(X) (X)	(X) 19	(D) (X)	(X) (X)	(X) 5	(D) (X)	(X) (X)	

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con. [For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendix	(es]					,			
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)		
	2816, Inorganic pigments			2819, Industrial inorganic chemicals, n.e.c.			2821, Plastics materials and resins				
Total product shipments ²	2 425.5	100	(X)	10 266.1	100	(X)	27 812.3	100	(X)		
Shipments to other establishments of same company:											
Wholesale establishments (including sales offices) ³ Retail stores and outlets	(D)	(D)	(X) (X)	454.7 1.0	4 (Z) 20	31 60	2 786.3	10	66 (X) 16		
Other nonmanufacturing establishments	358.7 (D)	15 (D)	31 (X)	2 071.4 6.5	(Z)	20 58	3 817.9 99.1	14 (Z)	40		
Shipments to all other customers: Wholesalers ³	173.7	7	18	883.1	9	32	594.1	2	20 .		
RetailersManufactures	11.8 1 781.6	(Z) 73	79 16	48.2 5 928.6	(Z) 58	52 13	59.7 19 273.4	(Z) 69	34 10		
Federal, State, and local governmentsAll other	(D) 94.7	(D) 4	(X) 30	90.7 781.8	1 8	29 30	3.2 1 178.6	(Z) 4	48 20		
Resales ⁴	(X) 9	4	(X)	(X) 37	2 (X)	(X)	(X) 21	1 (X)	(X) (X)		
- Specific Rule	9	(X)	(X)			(X)					
	2822, Synthetic rubber			2023, Cei	2823, Cellulosic manmade fibers			2824, Organic fibers, noncellulosic			
Total product shipments ²	3 467.0	100	(X)	1 220.0	100	(X)	8 875.7	100	(X)		
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets	308.0	9	64	-	-	(X) (X)	(D)	(D)	(X) (X)		
Other manufacturing establishmentsOther nonmanufacturing establishments	702.9	20	(X) 33 (X)	57.4	5	30 (X)	330.2 (D)	4 (D)	8 (X)		
Shipments to all other customers: Wholesalers3	9.7	(Z)	64		_	(X)	118.6	1	9		
Hetailers Manufacturers	2 281.0	66	(X) 26	1 162.6	95	(X) 17	(D) 8 020.1	(D) 90	(X) 8		
Federal, State, and local governmentsAll other	84.5 80.9	2 2	64 58	-	-	(X) (X)	(D)	(D)	(X) (X)		
Resales ⁴ Adjustment ratio ⁵	(X)	3	(X)	(X) 9	(Z)	(X)	(X)	(Z) (X)	(X) (X)		
A Specific Research	41 (X) (X) (X) 2833, Medicinals and			2834, F	(X) harmaceu		2835, Diag				
	b	otanicals		pre	eparations		2000, Diag	,1103110 341			
Total product shipments ² Shipments to other establishments of same company:	4 224.4	100	(X)	26 610.3	100	(X)	2 683.4	100	(X)		
Wholesale establishments (including sales offices) ³ Retail stores and outlets	153.3	4	51 (X)	4 446.0	17	1 (X)	(S) (S)	(S) (S)	(X) (X)		
Other manufacturing establishments Other nonmanufacturing establishments	2 121.2 14.2	50 (Z)	43 52	717.5 (D)	3 (D)	(X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)		
Shipments to all other customers: Wholesalers3	561.0	13	23	12 649.2	48	1	(S)	(S)	(X) (X)		
Retailers Manufacturers Federal, State, and local governments	36.9 662.7	16	49 23	4 576.2 1 462.2	17 5	1	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)		
All other	12.2 662.9	(Z) 16	44 40	781.2 (D)	3 (D)	(X)	(S)	(S)	(X)		
Resales ⁴	(X) 27	3 (X)	(X) (X)	(X) -4	13 (X)	(X) (X)	(X) (S)	5 (X)	(X) (X)		
		logical pro		2841, Soap and other detergents			2842, Polishes and sanitation goods				
Total product shipments ²				I		/V)	E 110 E				
Shipments to other establishments of same company:	1 765.2	100	(X)	9 527.1	100	(X)	5 112.5	100	(X)		
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments	217.1	12 - 1	69 (X) 84	714.9 11.5 7.2	8 (Z) (Z)	30 42 22	819.9 3.1 4.9	16 (Z) (Z) (Z)	57 75 59		
Other nonmanufacturing establishments Shipments to all other customers:	2.3	(Z)	1	-	-	(X)	0.1	(Ž)	75		
Wholesalers ³ Retailers	593.6 166.5	34	37 49	5 2 05 .2 2 556.1	55 27	28 33	1 925.3 1 478.5	38 29	50 33		
Federal, State, and local governments	62.3 133.1	4 8	84 49	646.2 185.2	7 2	20 26	528.0 54.2	10 1	67 27		
All other	574.7 (X)	33 5	34 (X)	200.8 (X)	2 8	24 (X)	298.5 (X)	6	44 (X)		
Adjustment ratio ⁵	58	(X)	(X)	18	(X)	(X)	57	(X)	(X)		
	2843, Surf	ace active	agents	2844, Toi	let prepar	ations		aints and products	allied		
Total product shipments ²	2 884.5	100	(X)	14 871.3	100	(X)	12 078.3	100	(X)		
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	474.5	16	60	1 872.8	13	28	1 200.6	10	. 27		
Other manufacturing establishments	2.0 95.9	(Z) 3	62 27	1 305.0 31.6	9 (Z)	34 26	1 404.9 671.1	12 6	38 34		
Shipments to all other customers:	-	-	(X)	209.3	1	52	21.0	(Z)	70		
Wholesalers Retailers Manufacturers	481.3	17	36 (X) 24	2 621.5 7 745.6	18 52	18 18	1 283.1 2 552.9	11 21	26 35 26		
Manufacturers	1 731.3 15.0 84.3	60 1 3	24 62 27	556.8 191.2 337.5	4 1 2	27 26 40	4 439.4 61.4 443.9	37 1 4	26 30 37		
Resales ⁴	(X)	4	(X)	337.5 (X)	5	(X)	(X)	6	(X)		
Adjustment ratio ⁵	38	(X)	(X)	30	(X)	(X)	46	(X)	(X)		

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan	nation of terms,	see appendi	kes]							
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	
		2861, Gum and wood chemicals intermediates			2869, Industrial organic chemicals, n.e.c.					
Total product shipments ²	551.6	100	(X)	11 138.7	100	(X)	35 451.7	100	(X)	
Shipments to other establishments of same company:	331.0	100	(^)	11 130.7	100	(^)	35 451.7	100	(^)	
Wholesale establishments (including sales offices) ³ Retail stores and outlets	52.0	9 -	91 (X)	808.9 29.1	7 (Z)	45 1	6 296.5 291.8	18	27 1	
Other manufacturing establishmentsOther nonmanufacturing establishments	84.3 4.4	15 1	41 38	2 244.3 3.3	20 (Z)	25 62	.7 649.2 183.4	22	15 32	
Shipments to all other customers: Wholesalers3	050.4	40		400.7		40	0.000.0	10	10	
RetailersManufacturers	253.1 - 92.9	46	39 (X)	420.7 55.2	4 (Z) 65	40 59	3 388.6 595.4 15 491.9	10	13 26 11	
Federal, State, and local governments	64.9	17	26 (X) 28	7 267.1 16.3	(Z) 3	18 62 29	334.6 1 220.2	44 1 3	25 17	
Resales ⁴	(X)	3	(X)	293.9 (X)	2	(X)	(X)	4	(X)	
Adjustment ratio ⁵	14	(X)	(X)	39	(X)	(X)	7	(X)	(X)	
	2873, Nitro	ogenous fe	ertilizers	2874, Pho	sphatic fe	rtilizers	2875, Fert	2875, Fertilizers, mixing only		
Total product shipments ²	2 759.1	100	(X)	3 609.0	100	(X)	1 370.6	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	328.1	12	32	1 224.2	34	25	76.5	6	43	
Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	47.9 155.5 -	2 6 -	52 25 (X)	107.7 398.7 -	3 11 -	29 28 (X)	237.2 43.2 -	17 3 -	40 91 (X)	
Shipments to all other customers: Wholesalers3	794.2	29	25	611.5	17	27	638.4	47	42	
Manufacturers	725.4 535.0	26 19	30 21	472.1 493.0	13 14	23 41	277.9 69.0	20 5	31 61	
Federal, State, and local governmentsAll other	0.3 172.8	(Z) 6	87 48	1.6 300.2	(Z) 8	46 28	1.8 26.6	(Z) 2	38 44	
Resales ⁴	(X)	2	(X)	(X)	1	(X)	(X)	28	(X)	
Adjustment ratio ⁵	29	(X)	(X)	21	(X)	(X)	41	(X)	(X)	
	2879, Agri	cultural ch n.e.c.	emicals,	2891, Adhesives and sealants			2892, Explosives			
Total product shipments ²	5 579.6	100	(X)	4 550.4	100	(X)	742.8	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments	(D) (D) 709.7	(D) (D) 13	(X) (X) 13	309.7 0.2 153.3	7 (Z) 3	52 71 27	(D) 17.0	(D) - 2	(X) (X) 15	
Other nonmanufacturing establishments	(D)	(D)	(X)	30.2	1	59	-	-	(X)	
Wholesalers3Retailers	2 799.2 436.8	50 8	8 13	671.9 211.8	15 5	30 39	248.0 (D)	33 (D)	20 (X) (X)	
Manufacturers Federal, State, and local governments	972.1 17.6	17 (Z)	14 12	2 645.6 3.6	58 (Z) 12	35 66	(D) 406.6	(D) 55	(X)	
All other	389.0	7 3	13 (X)	523.9	12	38	54.8	7 3	1 (X)	
Adjustment ratio ⁵	(X) 5	(X)	(X)	(X) 50	(X)	(X) (X)	(X) -4	(X)	(X)	
	2893	, Printing i	nk	2895, Carbon black			2899, Chemical preparations, n.e.c.			
Total product shipments ²	2 359.1	100	(X)	569.6	100	(X)	7 447.5	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	-	-	(X)	560.3	8	40	
Retail stores and outlets Other manufacturing establishments Other nonmonifold retaining to the common of the comm	(S) (S) (S)	(S) (S) (S) (S)	(X) (X)	(D)	(D)	(X) (X) (X)	10.7 886.9	(Z) 12	59 37	
Other nonmanufacturing establishments Shipments to all other customers:	(S)	(S)	(X)	-	-	, .	43.9	'	46	
Wholesalers3Retailers	(S) (S)	(S) (S)	(X) (X)	-	-	(X) (X)	668.3 541.0	9 7	22 26	
Federal, State, and local governments	(S) (S)	(S) (S) (S) (S)	(X) (X)	(D) -	(D)	(X) (X) (X)	2 890.6 109.4	39	13 40	
All other	(S) (X)	(S) 2	(X) (X)	(D) (X)	(D) (Z)	(X) (X)	1 736.4 (X)	23	26 (X)	
Adjustment ratio ⁵	(S)	(X)	(X)	2	(X)	(X)	34	(X)	(X)	
		oleum and	coal	2911, Pe	troleum re	fining	2951, Asph	alt paving	mixtures	
Total product shipments ²	125 811.1	100	(V)	114 278.3	100	(X)	4 087.0	100	(X)	
Shipments to other establishments of same company:			(X)							
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	67 116.5 3 777.7 6 242.1 226.4	53 3 5 (Z)	10 14 11 23	66 360.9 3 773.3 5 912.5 128.9	58 3 5 (Z)	11 14 12 23	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	
Shipments to all other customers: Wholesalers ³					20	9			(X)	
RetailersManufacturers	28 182.0 5 754.1 5 581.9	22 5 4	8 9 7	23 379.8 5 244.8 4 275.1	5 4	10 8	(S) (S) (S)	(S)	(×)	
Federal, State, and local governments	3 332.5 5 598.0	3 4	14 15	1 925.6 3 277.4	2 3	10 21	(S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	
Resales ⁴	(X)	2	(X)	(X)	2	(X)	(X)	2	(X)	
Adjustment ratio ⁵	17	(X)	(X)	14	(X)	(X)	(S)	(X)	(X)	

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	2952, Asphalt felts and coatings			2992, Lubricating oils and greases			2999, Petroleum and coal products, n.e.c.		
Total product shipments ²	3 175.7	100	(X)	3 622.2	100	(X)	647.9	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	122.8	4	53	578.5	16	33	3.6	1	26
Retail stores and outletsOther manufacturing establishments	_	3	(X) 31	4.1 126.8	(Z)	42 38	95.7	15	(X) 19
Other nonmanufacturing establishments Shipments to all other customers:	-	-	(X)	54.8	2	60	-	-	(X)
Wholesalers3	1 941.4 275.7	61 9	27 35	1 863.9 161.4	51 4	25 32	29.2 7.7	5	27 3 0
Manufacturers Federal, State, and local governments	254.4 23.3	8	46 61	665.6 37.6	18	26 33	321.3 4.1	50	18 26
All other	458.1	14	35	129.5	4	29	186.3	29	23
Resales ⁴ Adjustment ratio ⁵	(X) 43	5 (X)	(X) (X)	(X) 37	5 (X)	(X) (X)	(X) 22	4 (X)	(X) (X)
	30, Rubber	and misc	ellaneous		s and inne		3021, Rul	ber and p	
Total product shipments ²		ics produ					519.6	ootwear 100	(X)
Shipments to other establishments of same company:	85 403.8	100	(X)	10 032.7	100	(X)			
Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	3 887.5 1 053.5 5 414.8 147.5	5 1 6 (Z)	26 48 15 30	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	1.6 28.1 - 27.1	(Z) 5 - 5	83 69 (X) 80
Shipments to all other customers: Wholesalers3	18 748.6	22	9	(S)	(S)	(X)	104.8	20	37
Retailers Manufacturers	8 739.2 42 122.1	10 49	16 8	(S) (S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)	299.4 21.2	58 4	35 52
Federal, State, and local governmentsAll other	757.0 4 533.6	1 5	17 15	(S) (S)	(S) (S)	(X) (X)	4.5 3 2.8	1 6	50 57
Resales ⁴	(X)	2	(X)	(X)	3	(X)	(X)	5	(X)
Adjustment ratio ⁵	54	(X)	(X)	(S)	(X)	(X)	34	(X)	(X)
		3052, Rubber and plastics hose and belting			3053, Gaskets, packing, and sealing devices			echanical i goods	ubber
Total product shipments ²	2 213.6	100	(X)	2 309.4	100	(X)	3 553.9	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(Z)	(Z)	(X)	63.7	3	23	16.5	(Z)	54
Retail stores and outlets	12.8 4.9	1 (Z)	(X) 63 85	10.4 17.8 5.2	(Z) 1 (Z)	79 42 37	340.0 11.8	10 (Z)	(X) 35 49
Wholesalers ³ Retailers	1 629.4 35.4	74 2	42 53	3 62.6 21.4	16	30 80	660.7 196.0	19 6	19 46
Manufacturers Federal, State, and local governments	340.4	15	40 45	1 462.0 75.2	63	66 59	1 98 3.3 66.5	56 2	15 49
All other	134.6	6	88	291.0	13	49	279.2	8	26
Resales ⁴ Adjustment ratio ⁵	(X) 48	2 (X)	(X) (X)	(X)	3 (X)	(X) (X)	(X) 49	2 (X)	(X) (X)
		bricated r			upported and shee		3082, Unsupported plastics profile shapes		
Total product shipments ²	·	100	(X)	8 766.6	100	(X)	2 369.8	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	20.6	1	54	284.0	3	25	76.8	3	25
Other manufacturing establishments Other nonmanufacturing establishments	491 9	9 (Z)	(X) 35 49	44.1 646.1 11.5	1 7 (Z)	82 16 42	11.9 174.7 3.1	1 7 (Z)	25 82 16 42
Shipments to all other customers: Wholesalers3	947.5	18	19	1 810.0	21	11	489.3	21	11
Manufacturers	289.0 2 944. 3	6 56	46 15	718.7 4 73 4.4	8 54	13 9	194. 3 1 279.8	8 54	1 3 9
Federal, State, and local governmentsAll other	95.2 419.8	2 8	49 26	54.0 463.8	1 5	18 19	14.6 125.4	1 5	18 19
Resales ⁴	(X)	5	(X)	(X)	1	(X)	(X)	3	(X)
Adjustment ratios	45	(X)	(X)	59	(X)	(X)	55	(X)	(X)
		minated p neet, and p shapes		3084,	Plastics p	pipe	3085, F	Plastics bo	ttles
Total product shipments ²	2 093.9	100	(X)	2 384.4	100	(X)	2 849.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets		3	25	77.2	3	25	92.3	3	25 82
Other manufacturing establishments	10.5 154.2	7	82 16	12.0 175.7	7 (7)	82 16	14.3 210.0	7	16 42
Other nonmanufacturing establishmentsShipments to all other customers:		(Z)	42	3.1	(Z)	42	3.7	(Z)	
Wholesalers3Retailers	4 3 2.0 171.5	21 8	11 13	492. 3 195.5	21 8	11 13	588.3 233.6	21 _8	11 13
Manufacturers Federal, State, and local governments	1 131.5 12.9	54 1	9 18	1 287.7 14.7	54 1	9 18	1 5 3 8.9 17.5	54	9 18
All other	110.7 (X)	5 2	19 (X)	126.1 (X)	5	19 (X)	150.8 (X)	5	19 (X)
Adjustment ratio ⁵		(X)	(x)	57	(X)	(x)	50	(X)	(X)

[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendix	res]							
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	
	3086, Plast	ics foam p	products	3087, Custom compounding of purchased plastic resins			3088, Plastics plumbing fixtures			
Total product shipments ²	7 026.3	100	(X)	2 370.4	100	(X)	751.2	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	227.6	3	25	76.8	3	25	24.3	3	25	
Retail stores and outlets Other manufacturing establishments	35.4 517.9	1 7	82 16	11.9 174.7	1 7	82 16	3.8 55.4	1 7	82 16	
Other nonmanufacturing establishments	9.2	(Z)	42	3.1	(Z)	42	1.0	(Z)	42	
Shipments to all other customers: Wholesalers ³	1 450.7	21	11	489.4	21	11	155.1	21	11	
Retailers Manufacturers	576.0 3 794.5	8 54	13	194.3 1 280.1	8 54	13	61.6 405.7	8 54	13 9 18	
Federal, State, and local governmentsAll other	43.3 371.7	5	18 19	14.6 125.4	5	18 19	4.6 39.7	1 5	19	
Resales ⁴	(X)	1	(X)	(X)	1	(X)	(X)	1	(X)	
Adjustment ratio ⁵	55	(X)	(X)	48	(X)	(X)	49	(X)	(X)	
	3089, Plastics products, n.e.c.				her and le	ather	3111, Leather tanning and finishing			
Total product shipments ²	32 927.4	100	(X)	8 633.8	100	(X)	2 212.2	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets	1 065.9 165.6	3	25 82	755.6 686.1	9	27 28	0.1	(Z)	74 (X)	
Other manufacturing establishments Other nonmanufacturing establishments	2 425.4 43.2	7 (Z)	16 42	718.2 3.4	8 (Z)	43 80	558.3 3.4	25 (Z)	(X) 53 80	
Shipments to all other customers:								9	72	
Wholesalers ³ Retailers	6 794.5 2 697.8	21 8	11 13	1 059.9 3 515.1	12 41 19	23 14 22	207.0 10.1 1 342.9	(Z) 61	65 26	
Manufacturers Federal, State, and local governments	17 791.2 202.7	54 1 5	9 18 19	1 652.3 87.5 155.6	1 2	44	0.2	(Z)	76 71	
All other	1 741.1 (X)	2	(X)	(X)	6	(X)	(X)	2	(X)	
Adjustment ratio ⁵	56	(X)	(X)	41	(X)	(X)	55	(X)	(X)	
•	3131, Footwear cut stock			3142, House slippers			3143, Men's footwear, excep athletic			
Total product shipments ²	335.3	100	(X)	205.3	100	(X)	1 833.5	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	_	_	(X)	_	_	(X)	254.5	14	39	
Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	108.6	32	(X) 71 (X)	- - -	- - -	(X) (X) (X)	223.4 19.3	12 1 -	38 66 (X)	
Shipments to all other customers: Wholesalers ³	22.5	7	94	11.3	5	49	149.3	8	63	
Retailers Manufacturers	59.7 144.5	18 43	98 59	193.3	94	51 (X) 53	1 138.8	62	19 (X) 85	
Federai, State, and local governments	_	_	(X) (X)	0.7 (Z)	(Z) (Z)	53 (X)	39.8 8.4	(Z)	45	
Resales ⁴	(X)	1	(X)	(X)	5	(X)	(X)	9 (X)	(X) (X)	
Adjustment ratio ⁵	3144, We	omen's foo	otwear,	28 (X) (X) (X) 3149, Footwear, except			3151, Leather gloves and			
T-11 1 1 1		ept athlet	1		ober, n.e.c	T	147.3	mittens 100	(X)	
Total product shipments ² Shipments to other establishments of same company:	1 374.4	100	(X)	449.1	100	(X)	147.5	100		
Wholesale establishments (including sales offices) ³	420.8	30 31	40 41	(S) (S) (S)	(S) (S)	(X) (X)		_	(X) (X) (X) (X)	
Other manufacturing establishmentsOther nonmanufacturing establishments	32.0	2 -	91 (X)	(S) (S)	(S) (S)	(X) (X)	_	_	(%)	
Shipments to all other customers: Wholesalers3	195.8	14	39	(S)	(S)	(X)	75.6	51	99	
Hetailers Manufacturers	288.9 (D)	21 (D)	30	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)	51.4	35	99 53 (X) 76 (X)	
Federal, State, and local governments	(D)	(D) (D)	(X) (X) (X)	(S) (S)	(S) (S)	(X) (X)	20.3	14	(X)	
Resales ⁴	, ,	1	(X)	(X)	6	(X)	(X) 47	12	(X) (X)	
Adjustment ratio ⁵	17	(X)	(X)	(S)	(X)	(X)	3172, Pers	onal leath		
	316	31, Luggag	e	3171, WOIII	purses	bays and	3172, 1 013	n.e.c.	o. goodo,	
Total product shipments ²	816.8	100	(X)	469.3	100	(X)	411.6	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	_	-	(X)	-	-	(X)	
Retail stores and outlets Other manufacturing establishments Other permanufacturing catablishments	(S)	(S) (S) (S) (S)	(X) (X) (X)	=	-	(X) (X) (X)	=	=	(X) (X) (X)	
Other nonmanufacturing establishments		(5)				''			, ,	
Wholesalers ³	(S)	(S) (S)	(X) 43	95.4 355.5	20 76	85 40	26.5 320.9	6 78	42 53 64	
ManufacturersFederal, State, and local governments	(S)	(S) (S)	(X)	14.8 3.6	3 1	51 66	4.3 9.5	1 2	64 60 53	
All other		(S)	(X) (X)	(X)	7	(X) (X)	50.3 (X)	12	(X)	
Adjustment ratios	, ,	(X)	(X)	44	(X)	(X)	41	(X)	(X)	

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	
	3199, Leather goods, n.e.c.			32, Stone, clay, and glass products			3211, Flat glass			
Total product shipments ²	379.0	100	(X)	58 022.4	100	(X)	3 509.0	100	(X)	
Shipments to other establishments of same company:			(^)	36 022.4	100	(^)	3 505.0	100	(^)	
Wholesale establishments (including sales offices) ³	(S) (S)	(S) (S) (S) (S)	(X) (X)	2 584.8 119.7	4 (Z)	21 26	51.5	1 -	37 (X) 41	
Other manufacturing establishments Other nonmanufacturing establishments	(S) (S)	(S)	(X) (X)	4 008.7 502.4	7	17 66	1 311.9	37	41 (X)	
Shipments to all other customers:			(//)		·					
Wholesalers ³ Retailers	(S) (S)	(S) (S) (S)	(X) (X)	12 494.6 4 951.8	22 9	10 16	920.1 281.3	26 8	28 54	
ManufacturersFederal, State, and local governments	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X)	16 869.4 817.9	29 1	15 19	719.8 14.0	21 (Z)	24 54	
All other			(X)	15 673.1	27	10	210.4	6	52	
Resales ⁴ Adjustment ratio ⁵	(X) (S)	8	(X)	(X) 51	5	(X)	(X) 51	1	(X) (X)	
, agastion tally	(3)	(X)	(X)		(X)	(X)		(X)		
	3221, G	lass conta	iners		essed and ass, n.e.c.	biown	3231, Products of purchased glass			
Total product shipments ² Shipments to other establishments of same company:	4 720.7	100	(X)	3 547.6	100	(X)	4 502.9	100	(X)	
Wholesale establishments (including sales offices) ³ Retail stores and outlets	6.2	(Z)	50	3.1	(Z)	50	172.4	4	52 80	
Other nonmanufacturing establishments Other nonmanufacturing establishments	404.3	9	(X) 30	40.5 338.5	10	57 59	0.1 411.4	(Z) 9	55 (X)	
Shipments to all other customers:	_		(X)	_	_	(X)	_	_	(^)	
Wholesalers ³ Retailers	1 297.1 7.9	27 (Z)	15 35	868.1 591.9	24 17	32 41	912.2 275.5	20 6	26 39	
ManufacturersFederal, State, and local governments	3 002.6	(Z) 64 (Z)	28 (X)	1 344.6 54.1	38	38 63	2 011.9 81.6	45 2	23 67	
All other	(Z) 2.6	(Z) (Z)	50	306.9	9	43	637.8	14	35	
Resales ⁴	(X) 25	(D) (X)	(X) (X)	(X)	2 (X)	(X) (X)	(X) 56	3 (X)	(X) (X)	
	20		(//)				3253, Ceramic wall			
	3241, Ce	ement, hyd	Iraulic	3251, Brick and structural clay tile			3233, Cer	tile	11001	
Total product shipments ²	4 116.1	100	(X)	1 151.3	100	(X)	624.6	100	(X)	
Shipments to other establishments of same company:										
Wholesale establishments (including sales offices) ³ Retail stores and outlets	492.9 4.1	12 (Z)	30 85	(S) (S) (S) (S)	(S) (S)	(X) (X)	393.1	63	58 (X) (X)	
Other manufacturing establishmentsOther nonmanufacturing establishments	176.7 42.8	4	44 41	(S) (S)	(S) (S) (S)	(X) (X)	_	_	(X) (X)	
Shipments to all other customers: Wholesalers3	518.7	13	27	(S)	(S)	(X)	231.5	37	52	
Hetailers Manufacturers	377.2 1 84 0 .0	9 45	27 18	(S)	(S) (S)	(X) (X) (X)	-	_	(X)	
Federal, State, and local governments	15. 0 648.8	(Z) 16	34	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X)	-	-	(X) (X) (X) (X)	
Resales ⁴	(X)	5	(X)	(X)	7	(X)	(X)	(D)	(X)	
Adjustment ratio ⁵	27	(X)	(X)	(S)	(X)	(X)	41	(X)	(X)	
	3255, C	lay refract	ories	3259, Structural clay products, n.e.c.			3261, Vitreous plumbing fixtures			
Total product shipments ²	744.5	100	(X)	153.8	100	(X)	714.1	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	1.6	(Z)	78	_	_	(X)	8.1	1	54	
Retail stores and outlets Other manufacturing establishments	17.8	- 2	(X) 56	125.4	- 82	(X) 94	4.5	1	(X) 85	
Other nonmanutacturing establishments	-	- 1	(X)	-	-	(X)	-	-	(X)	
Shipments to all other customers: Wholesalers3	34.4	5	56	14.2	9	76	691.9	97	28	
RetailersManufacturers	21.5 528.7	3 71	53 44	11.4	7 -	76 (X)	5.1 1.0	(Z)	55 55 (X) 54	
Federal, State, and local governments	133.8	1 18	70 62	2.8	2	(X) 76	3.6	1	(X) 54	
Resales ⁴	(X)	(D)	(X)	(X)	3	(X)	(X)	7	(X)	
Adjustment ratio ⁵	49	(X)	(X)	56	(X)	(X)	30	(X)	(X)	
	3262, Vitred kit	ous china t chenware	table and	3263, Semi kit	vitreous to chenware		3264, Pc	rcelain ele supplies	ctrical	
Total product shipments ²	252.9	100	(X)	88.9	100	(X)	759.1	100	(X)	
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³		_	(X)	(S)	(S)	(X)	(S)	(S)	(X)	
Retail stores and outlets Other manufacturing establishments	11.6 4.5	5 2	(X) 58 81	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	(S) (S) (S)	(S) (S) (S)	(X) (X) (X) (X)	
Other nonmanutacturing establishments	4.5	-	(X)	(S)	(S)	(x)	(S)	(S) (S)	(X)	
Shipments to all other customers: Wholesalers3	13.0	5	53	(S)	(S) (S)	(X)	(S)	(S) (S)	(X)	
Manufacturers	218.1	86 -	44 (X) 67	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X) (X) (X)	
Federal, State, and local governmentsAll other	0.2 5.5	(Z) 2	67 67	(S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X)	
Resales ⁴	(X)	(D)	(X)	(X)	(D)	(X)	(X)	1	(X)	
Adjustment ratio ⁵	35	(X) I	(X) I	(S) l	(x) l	(X) I	(S)	(X)	(X)	

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To meaning or abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendi	xesj								
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)		
	3269, Potte	3269, Pottery products, n.e.c.			3271, Concrete block and brick			3272, Concrete products, n.e.c.			
Total product shipments ²	494.4	100	(X)	1 950.7	100	(X)	5 511.7	100	(X)		
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	22.5 2.5	- 5 1	(X) 69 54 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	0.1 0.4 68.0	(Z) (Z) 1	54 59 56 (X)		
Shipments to all other customers: Wholesalers³	122.7 199.3 130.1	25 40 26	70 45 42 (X)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	1 057.3 148.1 2 761.8 117.6	19 3 50 2	37 35 79 38		
All other	17.3 (X)	4 5	90 (X)	(S) (X)	(S) 21	(X) (X)	1 358.4	25 5	19 (X)		
Adjustment ratio ⁵	19	(X)	(×)	(A) (S)	(X)	(×)	(X) 34	(X)	(X)		
	3273, Rea	L			274, Lime		3275, Gypsum products				
Total product shipments ²	11 794.9	100	(X)	703.9	100	(X)	2 563.1	100	(X)		
Shipments to other establishments of same company: Wholesale establishments (including sales offices)3 Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments Shipments to all other customers:	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	0.8 - 14.3 -	(Z) - 2 -	92 (X) 63 (X)	133.6 0.1 38.4 -	5 (Z) 2	55 89 55 (X)		
Wholesalers3————————————————————————————————————	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	××××××××××××××××××××××××××××××××××××××	55.2 2.9 244.0 85.0 301.7	8 (Z) 35 12 43	39 56 37 71 54	705.9 1 144.1 134.7 135.8 270.5	28 45 5 11	38 56 54 52 59		
Resales ⁴ Adjustment ratio ⁵	(X)	5	(X)	(X)	1	(X)	(X)	3	(X)		
Aujustinent ratio	(S)	stone and	(X)	41	(X)	(X)	58	(X)	(X)		
•		products	a stone	3291, Ab	rasive pro	ducts	3292, Asbestos products				
Total product shipments ²	808.8	100	(X)	2 871.6	100	(X)	385.4	100	(X)		
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	71.8 - 2.5	9 (Z)	40 (X) 53 (X)	818.2 - 566.4 -	28 - 20	56 (X) 46 (X)	8.3 159.5	2 - 41 -	76 (X) 76 (X)		
Shipments to all other customers: Wholesalers3	413.4 116.0 33.9 21.1 150.0	51 14 4 3 19	52 56 25 47 36	962.0 17.5 483.3 0.4 23.8	33 1 17 (Z)	45 88 32 38 47	24.1 - 135.2 2.3 56.1	6 - 35 1 15	72 (X) 56 76 52		
Resales ⁴	(X)	2	(X)	(X)	12	(X)	(X)	(D)	(X)		
Adjustment ratio ⁵	29	(X)	(X)	31	(X)	(X)	58	(X)	(X)		
	3295, Mir	nerals, gro treated	und or	3296, Mineral wool			3297, Nonclay refractories				
Total product shipments ²	1 344.8	100	(X)	3 137.6	100	(X)	972.4	100	(X)		
Wholesale establishments (including sales offices) ³	129.6 26.7 32.1	10 2 2 -	44 44 27 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	4.3 8.1	(Z) - 1 -	61 (X) 43 (X)		
Shipments to all other customers: Wholesalars Retailers Manufacturers Federal, State, and local governments All other	103.4 42.3 546.9 4.0 459.8	8 3 41 (Z) 34	29 83 26 38 35	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	64.0 - 853.4 0.2 42.3	7 - 88 (Z) 4	51 (X) 37 43 29		
Resales ⁴ Adjustment ratio ⁵	(X) 20	1 (X)	(X) (X)	(X) (S)	2 (X)	(X) (X)	(X) 37	4 (X)	(X) (X)		
	3299, No	nmetallic n	nineral	33, Primary			3312, Blast	furnaces			
	proc	ducts, n.e.	c.	oo, Filliar	y metal in	30311103		mills			
Total product shipments ² Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets	597.6 (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	3 722.7 14 445.5 1 032.5	100 3 - 12 1	(X) 20 (X) 7 21	38 456.6 754.5 - 2 779.2 268.2	100 2 - 7 1	27 (X) 16 33		
Shipments to all other customers: Wholesalers³	(9) (9) (9) (9) (9) (8)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X) (X)	19 094.7 1 789.5 65 845.3 1 195.1 8 833.1 (X)	16 2 57 1 8	8 24 7 14 10 (X)	8 206.2 878.7 22 680.3 64.4 2 825.1 (X)	21 2 59 (Z) 7 (Z)	16 45 14 30 24 (X)		
Adjustment ratio ⁵	(S)	(X)	(x)	27	(X)	(X)	26	(X)	(X)		

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		ctrometall products	urgical	3315, Stee	l wire and	related	3316, Col	d finishing shapes	of steel
Total product shipments ²	840.6	100	(X)	3 483.6	100	(X)	4 366.1	100	(X)
Shipments to other establishments of same company:									45
Wholesale establishments (including sales offices) ³	253.3	30	60 (X) 53	17.1	(Z)	44 (X)	45.8	1 - 5	(X) 13
Other manufacturing establishments Other nonmanufacturing establishments	11.5 185.4	22	53 72	222.1 3.3	6 (Z)	43 5 9	237.4 0 .2	(Z)	61
Shipments to all other customers: Wholesalers3	38.0	5	61	1 115.3	32	26	821.3	19	11
Retailers Manufacturers	317.0	38	(X) 48	115.5 1 555.2	3 45	57 23	3 222.3	74	(X) 8
Federal, State, and local governments	35.4	4	(X) 69	26.0 429.2	1 12	70 38	(D) (D)	(D) (D)	(X) (X)
Resales ⁴	(X)	2	(X)	(X)	4	(X)	(X)	1	(X)
Adjustment ratio ⁵	52	(X)	(X)	55	(X)	(X)	4	(X)	(X)
	3317, Ste	el pipe and	d tubes	3321, Gra	y and duc oundries	tile iron	3322, Malle	eable iron	foundries
Total product shipments ²	3 751.5	100	(X)	6 839.4	100	(X)	342.2	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	200.4	5	38	33.8	(Z)	34	-	-	(X)
Retail stores and outlets	340.3 22.7	9 1	(X) 32 38	2 150.4 62.0	31 1	(X) 21 38	(D)	(D)	(X) (X) (X)
Shipments to all other customers: Wholesalers3	1 400.8	37	14	867.4	13	17	(D)	(D)	(X)
RetailersManufacturers	110.9 1 307.4	3 35	44	184.9 2 549.7	3 37	27 15	(D)	(D)	(X) (X) (X) (X) (X)
Federal, State, and local governments	34.4 334.6	1 9	27 34	406.5 584.7	6	27 20	-	-	(X)
Resales ⁴	(X)	1	(X)	(X)	4	(X)	(X)	(D)	(X)
Adjustment ratio ⁵	15	(X)	(X)	14	(X)	(X)	-12	(X)	(X)
	3324, S f	3325, Stee	l foundrie	s, n.e.c.	3331,	Primary co	pper		
Total product shipments ²	1 319.2	100	(X)	1 612.7	100	(X)	2 970.4	100	·(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets	(S)	(S)	(X) (X)	6.8	(Z)	67 (X)	-	-	(X) (X) 35
Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S)	(S) (S) (S) (S)	(X) (X)	91.9 6.3	6 (Z)	65 67	34.4 434.2	1 15	35 34
Shipments to all other customers: Wholesalers3	(S)	(S)	(X)	279.8	17	59	499.5	17	30
Retailers	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)	795.8	49	(X) 23	1 634.3	55	(X) 34
Federal, State, and local governmentsAll other	(S)	(S)	(X) (X)	16.9 415.2	1 26	67 48	368.1	12	(X) 31
Resales ⁴ Adjustment ratio ⁵	(X) (S)	1 (X)	(X) (X)	(X) 45	1 (X)	(X) (X)	(X) 18	1 (X)	(X) (X)
		imary alur		3339, Pri	mary nont	errous		ondary no	1
Total product shipments ²	4 443.9	100	(X)	2 458.3	tals, n.e.c	(X)	4 264.9	metals 100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	-						(D)	(D)	(×)
Hetail stores and outletsOther manufacturing establishments	(D) 2 347.9	(D) 53	(X) (X) 19	133.9	5	(X) (X) 30	(D)	(D)	(X) (X)
Other nonmanufacturing establishmentsShipments to all other customers:	(Z)	(Z)	27	-	_	(X)	(D)	(D)	(X)
Wholesalers ³ Retailers	(D)	(D)	(X) (X)	1 9 5.4 7.5	8 (Z) 83	82 33	155.9	4 -	33 (X)
Manufacturers	2 017.7 (D)	45 (D)	12 (X)	2 029.3 0.1	83 (Z)	64 33	2 337.3 21.7	55 1	79
All other	(D) (X)	(D) (D)	(X) (X)	92.1 (X)	4	33 (X)	(D) (X)	(D)	(X) (X)
Adjustment ratio ⁵	7.3	(X)	(X)	12.8	(X)	(X)	(24.4)	(X)	(X)
		pper rollir drawing	ng and	3353, Alum	inum she and foil	et, plate,	3354, Al	uminum ex products	ktruded
Total product shipments ²	4 667.9	100	(X)	9 051.9	100	(X)	3 781.9	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	192.1	4	56	145.7	2	50	45.6	1	. 55
Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	490.0	10	(X) 36 (X)	1 327.4	15	(X) 48 (X)	316.6 0.6	8 (Z)	(X) 36 69
Shipments to all other customers: Wholesalers ³	870.5	19	52	339.6	4	43	549.6	15	39
Manufacturers	2 466.0	53	(X) 20	130.6 6 631.2	1 73	94 37	23.2 2 793.6	1 74	61 25
Federal, State, and local governmentsAll other	0.4 648.8	(Z) 14	69 41	5.4 471.9	(Z) 5	43 45	4.1 48.7	(Z) 1	59 60
Resales ⁴	(X)	(D)	(X)	(X)	(Z)	(X)	(X)	1	(X)
Adjustment ratio ⁵	50	(X)	(X)	35	(X)	(X)	48	(X)	(X)

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		minum rol wing, n.e.		3356, Noni dra	errous ro wing, n.e.		3357, Noni	errous wir d insulatin	
Total product shipments ²	1 099.4	100	(X)	2 810.5	100	(X)	10 341.1	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³			(%)	10.0	(7)	50	1 000 1	10	26
Retail stores and outlets Other manufacturing establishments		46	(X) (X) 55	10.9 - 301.5	(Z) - 11	52 (X) 33	1 928.1	19 - 4	36 (X) 21
Other nonmanufacturing establishments	505.6	-	(X)	1.3	(Z)	54	- 3/2.3 (D)	(D)	(X)
Shipments to all other customers: Wholesalers3	2.2	(Z)	69	356.9	13	31	2 504.1	24	15
Retailers Manufacturers	5916	54	(X) 38	14.4 1 792.5	1 64	41 16	258.7 3 440.3	33	28 16
Federal, State, and local governmentsAll other	-	_	(X) (X)	211.3 121.7	8 4	37 29	(D) 1 656.0	(D) 16	(X) 16
Resales ⁴	(X)	(Z)	(X)	(X)	1	(X)	(X)	2	(X)
Adjustment ratio ⁵	48	(X)	(X)	29	(X)	(X)	25	(X)	(X)
	3363, Alun	ninum die-	castings	3364, N castings,	except al		3365, Alu	uminum fo	undries
Total product shipments ²	2 328.0	100	(X)	1 034.1	100	(X)	1 786.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	35.2	2	82	1.2	(Z)	93	27.0	2	82
Retail stores and outlets Other manufacturing establishments	1 398.5	17	(X) 26	77.9	8	(X) 89	305.8	17	(X) 26
Other nonmanufacturing establishmentsShipments to all other customers:	_	_	(X)	2.6	(Z)	79	-	_	(X)
Wholesalers ³ Retailers	177.5 2.5	8 (Z) 71	25 31	188.2 24.5	18 2	73 79	136.2 1.9	8 (Z) 71	25 31
Manufacturers Federal, State, and local governments	1 641.5 63.3	3	21 60	674.8 12.3	65 1	38 87	1 259.7 48.6	3	21 60
All other	9.6 (X)	(Z)	45 (X)	52.6 (X)	5	69 (X)	7.3 (X)	(Z) 1	45 (X)
Adjustment ratio ⁵	27	(X)	(×)	43	(X)	(×)	33	(X)	(X)
× .	3366, Copper foundries			3369, Noni	ferrous fo n.e.c.	undries,	3398, M	etal heat t	reating
Total product shipments ²	673.1	100	(X)	379.6	100	(X)	1 387.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices)3	(S)	(8)	(X)	(S)	(S)	(X)	(S)	(S)	
Hetall stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S)	(x) (x) (x)	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Shipments to all other customers: Wholesalers ³	(S)	(S)	(X)	(S)	(S)	(X)	(S)	(S)	(X)
Manufacturers	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	(S)	(S) (S)	(X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X) (X)
Federal, State, and local governmentsAll other	(S) (S)	(S) (S)	(X) (X)	(S) (S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X)
Resales ⁴ Adjustment ratio ⁵	(X) (S)	1 (X)	(X) (X)	(X) (S)	(D) (X)	(X) (X)	(X) (S)	1 (X)	(X) (X)
	3399, Prima	ary metal p		34, Fabricat				I, Metal ca	
Total product shipments ²	1 467.0	n.e.c.	(V)					100	
Shipments to other establishments of same company:	1 467.9	100	(X)	138 736.6	100	(X)	10 652.5		(X)
Wholesale establishments (including sales offices) ³	-	-	(X) (X)	4 723.5 331.8	3 (Z) 13	13 37	36.9 (Z) 1 015.9	(Z) (Z) 10	40 (X) 18
Other nonmanufacturing establishments	219.8	15	48 (X)	18 653.0 842.6	1	15 33	1 015.9	-	(X)
Shipments to all other customers: Wholesalers3	109.2	7	50	28 886.3	21	6	162.6	2	44 36
Retailers	1.6 1 097.8	(Z) 75	95 22	6 774.9 53 692.7	5 39 6	10 4 11	15.5 9 397.8 7.8	(Z) 88	14 39
All other		2	44 48	8 588.1 16 243.7	12	8	16.0	(Z) (Z)	38
Resales ⁴ Adjustment ratio ⁵	(X) 53	(X)	(X) (X)	(X) 42	3 (X)	(X) (X)	(X) 16	2 (X)	(X) (X)
		al barrels,		342	1, Cutlery		3423, Han	d and edg	je tools,
Total product chipmonts?									(V)
Total product shipments ² Shipments to other establishments of same company:	1 003.7	100	(X)	1 119.3	100	(X)	3 152.6	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	(S) (S)	(S) (S)	(X) (X)	536.6 72.8	48 7	40 83	260.0	8 -	75 (X) 66
Other manufacturing establishments Other nonmanufacturing establishments	(S) (S)	(S) (S)	(X) (X)	18.5	2	60 (X)	199.5 0.1	6 (Z)	66 66
Shipments to all other customers: Wholesalers	(S)	(S)	(X)	229.8	21	27	1 383.5	44	25
Manufacturers	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X)	184.1 42.8	16 4	33 35	998.5 219.8	32 7	35 31
Federal, State, and local governmentsAll other		(S) (S) (S)	(x) (x)	15.7 18.9	1 2	48 58	42.1 49.0	1 2	32 54
Resales ⁴ Adjustment ratio ⁵	(X) (S)	(Z) (X)	(X) (X)	(X) 25	2 (X)	(X) (X)	(X) 44	10 (X)	(X) (X)
	(0)	(^)	(//)	23	(//)	(//)	, , ,	(,,)	(/-/

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		Saw blades	and	3429, H	lardware,	n.e.c.	3431, Me	tal sanitar	y ware
Total product shipments ²	635.5	100	(X)	7 969.9	100	(X)	797.2	100	(X)
Shipments to other establishments of same company:									
Wholesale establishments (including sales offices) ³	29.4	5	57 (X)	187.4	2	43 (X)	0.3	(Z)	71 (X) 73
Other manufacturing establishments Other nonmanufacturing establishments	14.6	2 -	50 (X)	2 995.3 4.7	38 (Z)	58 65	10.1	1 -	(X)
Shipments to all other customers: Wholesalers3	419.9	66	33	2 192.9	28	19	744.5	93	33
Retailers	128.6 37.8	20	39 51	561.1 1 749.6	7 22	27	3.0 6.1	(Z) 1	58 68
Federal, State, and local governments	1.5 3.7	(Z) 1	47 66	185.7 93.2	2	23 55 29	21.7 11.6	3	93 61
Resales ⁴	(X)	7	(X)	(X)	2	(X)	(X)	2	(X)
Adjustment ratio ⁵	44	(X)	(X)	42	(X)	(X)	51	(X)	(X)
	3432, Plum	bing fixtur and trim	e fittings		ating equi ept electri		3441, Fat	ricated st metal	ructural
Total product shipments ²	2 205.0	100	(X)	2 138.5	100	(X)	7 746.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	416.4	19	30	73.1	3	86	(S)	(S)	(X)
Hetail stores and outlets Other manufacturing establishments	7.8	(Z)	(X) 24	7.4	(Z)	(X) 58	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)
Other nonmanufacturing establishments	-	_	(X)	-	-	(X)	(S)	(S)	(X)
Wholesalers3Retailers	1 211.4 512.1	55 23	15 21	1 185.4 224.0	55 10	26 29	(S) (S)	(S)	(X) (X)
Manufacturers Federal, State, and local governments	36.8	2 (Z)	15 28	400.0	19	26 61	(S) (S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)
All other	19.5	1	21	190.0	9	42			
Resales ⁴ Adjustment ratio ⁵	(X)	4 (X)	(X) (X)	(X) 20	5 (X)	(X) (X)	(X) (S)	7 (X)	(X) (X)
	3442, Meta	3443, Fabi	ricated pla		3444, S	heet metal	work		
Total product shipments ²	5 986.0	trlm 100	(X)	6 202.6	100	(X)	9 009.2	100	(X)
Shipments to other establishments of same company:									
Wholesale establishments (including sales offices) ³ Retail stores and outlets	(S) (S)	(S) (S) (S) (S)	(X) (X)	18.8 56.5	(Z)	54 96	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)
Other manufacturing establishmentsOther nonmanufacturing establishments	(S) (S) (S)	(S)	(X) (X)	69.6 206.6	3	44 88	(S) (S)	(S)	(x)
Shipments to all other customers: Wholesalers3	(S)	(S)	(X)	1 185.9	19	23	(S)	(S)	(X)
Retailers Manufacturers	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X)	81.5 2 988.1	1 48	45 18	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)
Federal, State, and local governmentsAll other	(S) (S)	(S) (S)	(X) (X)	333.7 1 261.9	5 20	39 29	(S) (S)	(S) (S)	(X) (X)
Resales ⁴	(X)	6	(X)	(X)	3	(X)	(X)	5	(X)
Adjustment ratios	(S)	(X)	(X)	57	(X)	(X)	(S)	(X)	(X)
	3446, Ar	chitectural work	metal		fabricated ouildings	metai	3449, MIS	work	s metai
Total product shipments ² Shipments to other establishments of same company:	2 193.4	100	(X)	2 825.0	100	(X)	2 998.5	100	(X)
Wholesale establishments (including sales offices) ⁵ Retail stores and outlets	(S)	(S)	(X) (X)	43.9	2	79 (X)	(S)	(S)	(X) (X)
Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S)		49.4	2	39 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)
Shipments to all other customers:				4 000 0	00				
Wholesalers ³ ————————————————————————————————————	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)	1 080.0 162.9	38	31 44	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X)
Manufacturers	(S) (S)	(S) (S)	(X) (X)	176.3 234.3	6	35 37	(S) (S)	(S) (S)	(X) (X) (X)
All other	(S) (X)	(5)	(X) (X)	1 078.2 (X)	38 6	43 (X)	(S) (X)	(5)	(X)
Adjustment ratios	(S)	(X)	(X)	41	(X)	(X)	(S)	(X)	(X)
		Screw mad products	hine	3452, Bolts	s, nuts, riv washers	ets, and	3462, Iron	and steel	forgings
Total product shipments ²	2 763.3	100	(X)	4 793.1	100	(X)	2 903.2	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(8)		(Y)	108.7	2	70	32.8	1	73
Other manufacturing establishments	(S)	(S) (S) (S) (S)	(x) (x) (x)	6.0 188.0	(Z)	62 54	385.8	13	(X) 46
Other nonmanufacturing establishments	(S) (S)	(S)	(x)	- 100.0	-	(X)	(Z)	(Z)	(X)
Shipments to all other customers: Wholesalers3	(S)	(S)	(X)	733.4	15	19	90.5	3	36
Retailers	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X)	70.2 3 473.0	72	85 13	42.4 2 122.0	73	60 19 51
Federal, State, and local governmentsAll other	(S) (S)	(S) (S)	(X) (X)	161.8 52.0	3	40 32	76.5 153.2	3 5	40
Resales ⁴ Adjustment ratio ⁵	(X)	1	(X)	(X)	4 (X)	(X)	(X) 53	1 (X)	(X) (X)
So fortestes et and of table	(S)	l (x)	(X)	38	(X)	(X) i	53 1	(^)	(^)

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan-	ation of terms,	see appendix	kes]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		nferrous fe		3465, Auto	motive st	ampings	3466, Cro	wns and o	closures
Total product shipments ²	1 061.4	100	(X)	14 961.0	100	(X)	811.4	100	(X)
Shipments to other establishments of same company; Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	95.7 -	9	(X) (X) 39 (X)	22.2 (D) 10 133.0	(Z) (D) 68	35 (X) 21 (X)	10.0 12.4	- - 1 2	(X) (X) 37 9 2
Shipments to all other customers: Wholesalers³ Retailers Manufacturers Federal, State, and local governments	62.1 0.7 823.3 21.0	6 (Z) 78 2	4 9 58 26 35	31.7 34.5 3 781.3 (D)	(Z) (Z) 25 (D)	24 32 8 (X)	- - 784.3 -	- 97 -	(X) (X) 25 (X) 62
All other	58.6 (X)	6 (Z)	(X)	957.4 (X)	6	21 (X)	4.8 (X)	1 (Z)	(X)
Adjustment ratio ⁵	27	(X)	(X)	12	(X)	(X)	22	(X)	(X)
	3469, Meta	ıl stampin	gs, n.e.c.	3471, Plat	ing and p	olishing	3479, Meta	l coating	and allied
Total product shipments ²	7 970.0	100	(X)	3 828.4	100	(X)	3 800.2	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	521.9 93.0 327.0	7 1 4	52 83 41 (X)	1.6 - 420.4	(Z)	76 (X) 62 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X) (X)
Shipments to all other customers: Wholesalers3	1 008.7 776.7	13 10	23	337.2 36. 9	9	24 61	(S) (S) (S)		(X) (X) (X) (X) (X)
Manufacturers	4 887.1 227.7 127.8	61 3 2	12 45 31	2 800.4 15.0 216.9	73 (Z) 6 2	17 44 60 (X)	(S) (S) (S) (X)	(S) (S) (S) (S) (S)	(X) (X) (X)
Resales ⁴ Adjustment ratio ⁵	(X) 5 9	2 (X)	(X) (X)	(X) 58	(X)	(X)	(S)	(X)	(X)
	3482, Smal	3483, Amm smal	unition, e		3484	4, Small ar	ms		
Total product shipments ²	699.9	100	(X)	2 901.9	100	(X)	1 099.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(D) (D) (D)	(D) (D) (D)	(X) (X) (X) (X)	- (D)	- (D)	(X) (X) (X) (X)	0.2	- (Z)	(X) (X) 43 (X)
Shipments to all other customers: Wholesalers³	(D) (D) (D) (D) (D)	(D) (D) (D) (D) (D)	(X) (X) (X) (X) (X)	(D) (D) 269.1 2 600.1 13.4	(D) (D) 9 90 (Z)	(X) (X) 39 1 49	42 9 .1 75.0 - 544.4 50.8	39 7 - 50 5	32 62 (X) 36 47
Resales ⁴ Adjustment ratio ⁵	(X) -27	(D) (X)	(X) (X)	(X) -3	(Z) (X)	(X) (X)	(X) 32	(D) (X)	(X) (X)
- Spourior range	3489,	Ordnance	and		ndustrial v		3492, Fluid	power v	
		ssories, n.						ose fitting	
Total product shipments ² Shipments to other establishments of same company:	771.0	100	(X)	4 224.1	100	(X)	2 730.4	9	(X)
Wholesale establishments (including sales offices) ³	(S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	368.4 - 151.9 4.5	9 - 4 (Z)	29 (X) 29 52	235.9 106.9 2.9	- 4 (Z)	29 (X) 29 52
Shipments to all other customers: Wholesalers3 Retailers Manufacturers Federal, State, and local governments	(S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)	1 777.2 103.6 1 18 9 .5 153.3 475.7	42 2 28 4 11	14 29 14 23 21	1 154.1 66.4 761.6 98.2 304.6	42 2 28 4 11	14 29 14 23 21
All other		(S) (D)	(X) (X)	(X)	3	(X)	(X)	5	(X)
Adjustment ratio ⁵	(S)	(X)	(X)	45	(X)	(X)	52	(X)	(X)
	3493, Ste	el springs wire	, except	3494, Valve	es and pip n.e.c.	e fittings,	3495	, Wire spr	ings
Total product shipments ²	706.7	100	(X)	2 294.5	100	(X)	1 474.7	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments.	293.5	- - 42 -	(X) (X) 58 (X)	200.1 - 82.5 (D)	9 - 4 (D)	29 (X) 29 (X)	3.5 - 274.7 -	(Z) - 19 -	77 (X) 42 (X)
Shipments to all other customers: Wholesalers3	91.5 7.4	13	32 54	965.4 (D)	42 (D)	14 (X)	13.8 2.3	1 (Z)	73 55
Manufacturers Federal, State, and local governments All other	302.1 0.2 11.9	43 (Z) 2	26 59 58	646.1 83.3 258.4	(D) 28 4 11	14 23 21	1 177.5 1.3 1.6	(Z) 80 (Z) (Z)	55 28 6 9 69 (X)
Resales ⁴ Adjustment ratio ⁵		7 (X)	(X)	(X) 53	5 (X)	(X)	(X) 48	(X)	(X)

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of appreviations and symbols, see introductory text. For explan	ation of terms,	see appendix	(es]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		Miscellane		3497, Me	etal foil an	d leaf	3498, Fat	oricated pi fittings	pe and
Total product shipments ²	2 744.7	100	(X)	2 099.8	100	(X)	1 759.5	100	(X)
Shipments to other establishments of same company:									
Wholesale establishments (including sales offices) ³	280.3	10	42 (X)	105.4	5	62 (X)	57.7	3	47 (X) 64
Other manufacturing establishmentsOther nonmanufacturing establishments	54.8 124.2	2 5	45 89	111.1	5 -	39 (X)	0.1 7.9	(Z) (Z)	66
Shipments to all other customers: Wholesalers³	1 109.4	40	24	397.9	19	33	906.7	52	54
RetailersManufacturers	197.2	7 28	46 24	0.1 1 438.3	(Z) 68	62 38	0.5 340.8	(Z) 19	64 30
Federal, State, and local governments	51.1 167.6	2 6	26 60	9.4 37.6	(Z)	62 41	27.9 417.9	2 24	51 36
Resales ⁴	(X)	3	(X)	(X)	3	(X)	(X)	2	(X)
Adjustment ratio ⁵	35	(X)	(X)	39	(X)	(X)	42	(X)	(X)
		abricated ducts, n.e.		35, Industr	ial machir quipment	nery and		bines and erator set	
Total product shipments ²	5 702.9	100	(X)	199 977.0	100	(X)	3 381.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	29.3	1	62	19 099.4	10	10			(X)
Retail stores and outlets Other manufacturing establishments	40.2 533.2	1 9	97 60	2 495.9 17 005.9	1 9	17 12	94.5	- 3	(X) (X) 10
Other nonmanufacturing establishments	2.3	(Z)	70	846.4	(Z)	20	-	-	(X)
Shipments to all other customers: Wholesalers3	626.8	11	34	35 345.8	18	6	208.6	6	19
RetailersManufactures	585.1 2 646.8	10 46	36 18	13 614.1 64 501.8	7 32	8 5	468.5	14	(X) 15 13
Federal, State, and local governments All other	331.3 907.9	6 16	34 38	9 238.7 37 829.0	5 19	10 10	1 094.4 1 515.6	32 45	15
Resales ⁴ Adjustment ratio ⁵	(X) 49	4 (X)	(X) (X)	(X) 36	6 (X)	(X) (X)	(X) 9	1 (X)	(X) (X)
								awn and g	
	3519, internal combustion engines, n.e.c.			3523, Fari	quipment	ery and	9524, L	quipment	aruen
Total product shipments ²	10 908.7	100	(X)	6 384.7	100	(X)	4 061.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	860.3	8	44	2 502.6	39	48	1 107.6	27	22
Retail stores and outletsOther manufacturing establishments	2 276.8	21	(X) 21	145.0 227.9	2	52 36	12.5 169.7	(Z) 4	30 26
Other nonmanufacturing establishmentsShipments to all other customers:	_	-	(X)		-	(X)	-	-	(X)
Wholesalers ³	3 523.8	32	27 37	1 247.6	20 27	20 29	940.1 1 494.5	23 37	12 13
Manufacturers Federal, State, and local governments	327.6 2 847.8 556.7	3 26	22	1 738.8 252.2 34.5	4	17 33	194.0	5 (Z)	28 23
All other	515.8	5 5	25 29	236.1	4	28	134.4	3	21
Resales ⁴ Adjustment ratio ⁵	(X) 30	5 (X)	(X) (X)	(X) 27	5 (X)	(X) (X)	(X) 11	7 (X)	(X) (X)
	3531, Cons				ning mach	1	3533, C	oil and gas	
Total product shipments ²	11 704.6	100	(X)	1 362.9	100	(X)	2 291.4	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	2 904.1	25	28	128.6	9	82	199.9	9	55
Retail stores and outletsOther manufacturing establishments	559.0 426.0	5 4	39 22	11.7 7.5	1	78 56	97.2 131.8	4 6	45 73 39
Other nonmanufacturing establishmentsShipments to all other customers:	170.6	i	38	15.8	i	52	257.7	11	39
Wholesalers ————————————————————————————————————	3 878.3	33 13	29 23	267.7	20	30	161.5 245.6	7	61 31
Manufacturers Federal, State, and local governments	1 514.6 907.5 287.7	8 2	15 15	(Z) 41.9 0.1	(Z) 3 (Z)	(X) 51 45	142.4 20.0	- 6	32 37
All other	1 056.8	9	15	889.4	65	25	1 035.2	45	18
Resales ⁴ Adjustment ratio ⁵	(X) 21	7 (X)	(X) (X)	(X) 33	8 (X)	(X) (X)	(X) 36	6 (X)	(X) (X)
		ators and			onveyors	and		ists, crane	es, and
	S	stairways		convey	ing equip	ment	, n	nonorails	
Total product shipments ² Shipments to other establishments of same company:	1 053.2	100	(X)	3 106.6	100	(X)	745.6	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	132.3	13	89 (X)	6.2	(Z)	58 (X)	(S)	(S)	(X) (X)
Other manufacturing establishments Other nonmanufacturing establishments	54.5 26.5	5 3	65 44	25.5	1	(A) 48 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)
Shipments to all other customers:				.0.0	15				
Wholesalers ³ Retailers Manufacturers	280.5 42.9	27 4	36 31	484.6 47.6	16	31 85	(S) (S) (S) (S) (S)	(S) (S)	(X) (X)
Manufacturers	227.2 52.1	22 5 23	34 32 36	2 129.2 41.6	69 1	24 41 28	(S) (S)	(S) (S) (S)	(X) (X) (X) (X)
Resales ⁴	237.2 (X)	4	(X)	371.9 (X)	12 5	(X)	(X)	(5)	(X)
Adjustment ratio ⁵		(X)	(X)	49	(X)	(X)	(S)	(X)	(X)

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con. [For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan	nation of terms,	see appendi	xes]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3537, Ind	lustrial true tractors	cks and		chine tools			chine tool rming type	
Total product shipments ²	2 257.3	100	(X)	2 585.2	100	(X)	1 370.3	100	(X)
Shipments to other establishments of same company:			. ,						
Wholesale establishments (including sales offices) ³	239. 5 170.7	11 8	61 58	(D)	(D)	(X) (X)	137.3	10	84 (X) 46
Other manufacturing establishments Other nonmanufacturing establishments	50.9	2 -	53 (X)	29.1 5.8	1 (Z)	48 87	33.6	(Z)	46 71
Shipments to all other customers:									
Wholesalers ³ Retailers	757.2 191.2	34	28 51	322.5 (Z)	12 (Z)	32 (X)	146.1 15.9	11	57 71
ManufacturersFederal, State, and local governments	500.4 57.6	22	38 34	2 140.8 55.7	83 2	(X) 19 26	976.1 10.4	71	71 27 54
All other	289.7	13	44	(D)	(D)	(X)	46.9	3	54 68
Resales ⁴	(X)	8	(X)	(X)	8	(X)	(X)	5	(X)
Adjustment ratio ⁵	42	(X)	(X)	30	(X)	(X)	51	(X)	(X)
	3543, In	dustrial pa	itterns	3544, Spec an	ial dies, to id fixtures			, Machine ccessories	
Total product shipments ²	558.5	100	(X)	8 147.1	100	(X)	3 422.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(8)		(6)	(8)	//	(6)	(8)	(Y)
Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Shipments to all other customers:				(-/					
Wholesalers3Retailers	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X)
ManufacturersFederal, State, and local governments	(S) (S)	(S) (S)	(X)	(S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X)
All other	` '	, ,				(X)	` '	, ,	
Resales ⁴ Adjustment ratio ⁵	(X)	(Z)	(X)	(X)	1	(X)	(X)	4	(X)
Nojostine it ratio	3546, Powe	(X)	(X)	(S) 3547, Rolli	na mill ma	(X)	(S)	(X) relding app	(X)
T-1-1 1 1 1 1									
Total product shipments ² Shipments to other establishments of same company:	1 886.9	100	(X)	403.0	100	(X)	1 918.0	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	197.1	10	40	-	-	(X)	47.3	2	80 72
Other manufacturing establishments	36.7 1.0	2 (Z)	(X) 34 42	48.8 3.1	12 1	(X) 89 57	204.6 70.7 0.6	11 4 (Z)	89 72
Shipments to all other customers: Wholesalers3	695.6	37	17	_	_	(X)	733.2	38	36
Manufacturers	530.6 2 5 0.9	28 13	21 23	351.1	- 87	(X) 35	86.8 574.8	5 30	71 29
Federal, State, and local governments	12.4 162.7	1 9	26 45	- !	-	(X) (X)	18.2 181.9	1 9	49 43
Resales ⁴	(X)	11	(X)	(X)	7	(X)	(X)	6	(X)
Adjustment ratio ⁵	18	(X)	(X)	32	(X)	(X)	28	(X)	(X)
		Metalwork hinery, n.e		3552, Te	xtile mach	ninery	3553, Wood	dworking r	nachinery
Total product shipments ²	1 004.1	100	(X)	1 104.2	100	(X)	793.4	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	10.9	1	80	7.4	1	77	11.8	1	69
Retail stores and outletsOther manufacturing establishments	0.8 50.7	(Z) 5	72 89	190.2	17	(X) 80	118.3 14.0	15	84 49
Other nonmanufacturing establishments	0.9	(Z)	72	- 130.2	-	(X)	-	-	(X)
Shipments to all other customers: Wholesalers³	313.9	31	36	143.7	13	95	41.7	5	47
Manufacturers	2.9 586.5	(Z) 5 8	4 5 29	34.0 719.0	3 65	97 37	506.8 40.4	64 5	46 30 70 79
Federal, State, and local governments All other	5.5 31.9	1 3	49 43	1.4 8. 5	(Z)	76 73	0.4 60.0	(Z) 8	70 79
Resales ⁴	(X)	1	(X)	(X)	7	(X)	(X)	9	(X)
Adjustment ratio ⁵	50	(X)	(X)	58	(X)	(X)	46	(X)	(X)
		aper indus	stries		Printing tra	ides		Food prod nachinery	ucts
Total product shipments ²	1 580.7	100	(X)	2 554.3	100	(X)	1 735.2	100	(X)
Shipments to other establishments of same company:									
Wholesale establishments (including sales offices) ³ Retail stores and outlets	0.3	(Z) -	75 (X) 47	150.9	6 -	68 (X)	166.1 57.6	10 3	36 65
Other manufacturing establishmentsOther nonmanufacturing establishments	34.8 8.0	2 1	47 82	198.1 25.2	8 1	51 59	44.5 47.9	3 3	24 64
Shipments to all other customers: Wholesalers3				1				7	20
Retailers	1.3 56.8	(Z) 4	60 74	242.9 261.5	10 10	37 71	127.5 22.7	7	39 58 17
Manufacturers Federal, State, and local governments	1 443.2 1.6	91 (Z)	28 73	1 085.7 20.9	43 1	27 51	1 231.0 1.4	71 (Z) 2	26
All other	34.8	2	67	569.1	22 9	39	36.5	5	25 (X)
Adjustment ratio ⁵	(X) 56	11 (X)	(X) (X)	(X) 56	(X)	(X) (X)	(X) 3	(x)	(X)
Conference at and of table		(/)	(**)	55 1	(,,)	(7.7)	0 1	(-,7,	` '

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explanations are symbols, see introductory text.	ation of terms, s	ee appendi	ces]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3559, S _I	pecial ind	ustry	3561, Pur	nps and p			and roller	
Total product shipments ²	7 951.0	100			100	(V)	3 563.8	100	(X)
Shipments to other establishments of same company:	7 951.0	100	(X)	3 447.6	100	(X)	3 303.0	100	(^)
Wholesale establishments (including sales offices) ³	167.0 95.6	2	40 95	150.7	4	35 (X) 37	796.9	22	32 (X) 27
Other manufacturing establishmentsOther nonmanufacturing establishments	408.1 4.2	5 (Z)	28 74	101.0 2.9	3 (Z)	37 47	713.2 (D)	20 (D)	27 (X)
Shipments to all other customers: Wholesalers3	692.5	9	32	1 022.5	30	16	407.7	11	23
RetailersManufacturers	30.5 5 318.7	(Z) 67	80 22	77.1 1 148.8	2 33	29 15	(D)	(D) 32	(X) 17
Federal, State, and local governmentsAll other	303.6 930.9	4 12	51 28	238.8 705.9	7 20	30 20	203.5 284.0	6 8	26 29
Resales ⁴	(X)	5	(X)	(X)	6	(X)	(X)	3	(X)
Adjustment ratios	48	(X)	(X)	35	(X)	(X)	16	(X)	(X)
		Air and g		3564, BI	owers and	d fans	3565, Pag	kaging ma	achinery
Total product shipments ²	2 628.9	100	(X)	2 181.6	100	(X)	2 039.9	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	383.8	15	34	25.9	1	84	126.0	6	46 65
Retail stores and outlets	14.1 28.9	1 1	53 37 63	54.6	3	(X) 30 66	35.1 81.3 40.9	2 4 2	59 91
Shipments to all other customers:	1.3	(Z)		5.6	(Z)				
Wholesalers ³ Retailers Wholesalers Whole	744.1 291.3	28 11	24 36	204.6 172.4	9	48 40	278.0 58.2	14	96 96
Manufacturers	652.6 49.7 463.0	25 2	32 33 33	651.3 33.8 1 033.2	30 2 47	29 33 22	1 226.8 48.2 145.4	60 2 7	35 96 96
Resales ⁴	(X)	18 6	(X)	(X)	47	(X)	(X)	4	(X)
Adjustment ratio ⁵	39	(X)	(X)	43	(X)	(X)	30	(X)	(X)
	3566, Speed changers, drives, and gears				strial furna ovens	aces and		wer transr ipment, n.e	
Total product shipments ²	1 541.4	100	(X)	1 235.5	100	(X)	2 071.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	(S)	(S)	(X)	37.4	2	49
Retail stores and outlets Other manufacturing establishments Other nonmanufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)	76.9	4	(X) 39 (X)
Shipments to all other customers: Wholesalers ³							682.7	33	29
Retailers Manufacturers	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S)	(X) (X)	1.0 1 160.2	(Z) 56	85 21
Federal, State, and local governmentsAll other	(S)	(S)	(X) (X)	(S) (S)	(S) (S) (S)	(X) (X) (X) (X)	25.1 87.6	1 4	29 51
Resales ⁴	(X)	4	(X)	(X)	3	(X)	(X)	4	(X)
Adjustment ratio ⁵	(S)	(X)	(X)	(S)	(X)	(X)	47	(X)	(X)
		neral indu inery, n.e		3571, Elec	tronic cor	nputers	3572, C	omputer si devices	lorage
Total product shipments ² Shipments to other establishments of same company:	3 840.5	100	(X)	26 624.2	100	(X)	6 904.9	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	91.8	2	46	2 863.6 440.6	11 2	15 31	747.8 114.8	11 2	15 31
Other manufacturing establishmentsOther nonmanufacturing establishments	199.4 43.3	5	(X) 55 91	2 959.8 1.3	11 (Z)	28 43	760.6 0.3	11 (Z)	28 43
Shipments to all other customers: Wholesalers3	736.9	19	22	2 452.2	9	11	632.7	9	11
RetailersManufacturers	163.1 1 979.1	52	77	1 286.5 4 242.1	5	20 17	335.2 1 087.6	5 16	20 17
Federal, State, and local governments	174.1 452.8	5 12	43 24	2 017.6 10 360.6	8	18 19	525.6 2 700.2	8 39	18 19
Resales ⁴	(X)	3	(X)	(X)	13	(X)	(X)	8	(X)
Adjustment ratios	41	(X)	(X)	(Z)	(X)	(X)	28	(X)	(X)
	3575, Con	nputer ter	minals		nputer per oment, n.e			Calculating iting equip	
Total product shipments ²	2 729.7	100	(X)	12 542. 3	100	(X)	1 208.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	1 890.6	15	15	189.3	16	55 69
Retail stores and outlets	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	198.2 1 313.0 0.6	2 10 (Z)	31 28 43	26.7 54.1	2 4	62 (X)
Shipments to all other customers:							440	10	36
Wholesalers ³ Retailers Manufacturers	(S) (S)	(S) (S)	(X) (X) (X)	1 096.5 578.8	9 5 15	11 20 17	116.1 246.5 20.8	10 20 2	41 43
Federal, State, and local governments	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X)	1 877.8 907.6 4 679.1	7 37	18 19	29.0 526.0	2 44	84 34
Resales ⁴	(X)	3	(X)	(X)	3	(X)	(X)	5	(X)
Adjustment ratio ⁵	(S)	(X)	(X)	47	(X)	(X)	41	(X) I	(X)

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explana-	ation of terms, s	see appendix	es]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3579, Offic	e machine	s, n.e.c.		tomatic ve	ending		mmercial I	aundry
Tatal madicat ahlumanta?	3 252.7	100	(Y)	695.2	100	(X)	433.2	100	(X)
Total product shipments ² Shipments to other establishments of same company:	3 252.7	100	(X)		100	(^)	400.2		
Wholesale establishments (including sales offices) ³ Retail stores and outlets	572.6	18	26 (X)	(S)	(S) (S)	(X) (X) (X)		-	(X) (X) (X) (X)
Other manufacturing establishmentsOther nonmanufacturing establishments	327.4	10	40 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)	-	_	(X) (X)
Shipments to all other customers:					(C)	(V)	200.0	74	29
Wholesalers ³ Retailers	275.7 198.1	8 6	25 23	(S) (S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)	322.2 27.8 12.1	6 3	52 56
ManufacturersFederal, State, and local governments	353.2 250.2	11 8	32 28	(S) (S)	(S) (S)	(X) (X) (X)	21.5	5	87 90
All other	1 275.6 (X)	39 17	21 (X)	(S) (X)	(5)	(×)	49.6 (X)	6	(X)
Adjustment ratio ⁵	18	(X)	(X)	(S)	~ (X)	(X)	31	(X)	(X)
		efrigerationg equipm			leasuring			ervice ind	
Total product shipments ²	15 337.5	100	(X)	916.7	100	(X)	3 926.3	100	(X)
Shipments to other establishments of same company:								(9)	(X)
Wholesale establishments (including sales offices) ³	944.1	6	17 55	114.2	12	78 (X) 67	(S) (S) (S) (S)	(S) (S)	(X) (X) (X)
Other manufacturing establishmentsOther nonmanufacturing establishments	2 274.0 105.4	15 1	36 76	211.2	23	(X)	(S)	(S) (S)	(X)
Shipments to all other customers: Wholesalers ³	3 435.9	22	12	405.8	44	51	(S)	(S)	(X)
RetailersManufacturers	1 552.0 5 003.2	10 33	19 26	28.2 53.5	3 6	49 35	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)
Federal, State, and local governmentsAll other	159.2 1 722.6	1 11	32 21	6.8 96.9	1 11	67 82	(S) (S)	(S) (S)	
Resales ⁴	(X)	5	(X)	(X)	(D)	(X)	(X) (S)	5 (X)	(X) (X)
Adjustment ratios	30	(X)	(X)	55 Sept.	(X)	(X)	3594, Fluid		
	3592, Carburetors, pistons, rings, and valves			3593, Fluid power cylinders and actuators			3394, 11010	motors	
Total product shipments ²	2 038.3	100	(X)	1 706.4	100	(X)	1 458.7	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	113.6	6	64	(S)	(S)	(X)	65.2	4	35 53 37
Retail stores and outlets	725.3	36	(X) 47 (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	0.2 91.5 1.2	(Z) 6 (Z)	37 63
Shipments to all other customers: Wholesalers3	290.9	14	30	(S)	(S)	(X)	417.0	29	24
Retailers Manufacturers	0.8 727.8	(Z) 36	51 21	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)	34.6 466.1	2 32	36 32 33
Federal, State, and local governmentsAll other	3.9 175.9	(Z) 9	44 39	(S) (S)	(S) (S)	(X) (X)	95.7 287.2	20	33
Resales ⁴	(X)	1	(X)	(X)	2	(X)	(X) 38	2 (X)	(X) (X)
Adjustment ratio ⁵	26 3596 Sca	les and ba	(X)	(S) 3599, Indi	(X)	chinery.		tronic and	
		pt laborat		0000, 1114	n.e.c.	1	elect	ric equipm	
Total product shipments ² Shipments to other establishments of same company:	592.5	100	(X)	12 788.1	100	(X)	162 933.5	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	(S) (S)	(S)	(X)	(S)	(S)	(X)	19 340.7 676.9	12 (Z)	15 22
Other manufacturing establishments	(S)	(S) (S) (S) (S)	(X) (X) (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X)	23 291.4 508.1	14 (Z)	22 12 27
Shipments to all other customers:						(X)	29 058.9	18	7
Wholesalers ³ Retailers Manufacture and the same and the	(S)	(S) (S)		(5)	(8)	(X) (X) (X)	15 675.5 39 491.2	10 24	8
Manufacturers Federal, State, and local governments All other	(S)	(S) (S) (S) (S)	(X) (X) (X) (X) (X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)		18 557.9 16 332.8	11 10	10 7
Resales ⁴	(X)	6	(X)	(X)	1	(X)	(X)	4	(X)
Adjustment ratio ⁵	(S)	(X)	(X)	(S)	(X)	(X)	26	(X)	(X)
		nsformers electronic	, except		Switchgea loard app		3621, Mot	ors and ge	enerators
Total product shipments ²	3 136.9	100	(X)	4 597.6	100	(X)	6 982.9	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	169.8	5	39	52.1	1	43	441.2	6	46 (X)
Retail stores and outletsOther manufacturing establishments	-	13	(X) 22	1 228.6	27	(X) 28	(D) 1 534.0	(D) 22 (D)	(X) 44 (X)
Other nonmanufacturing establishments Shipments to all other customers:	-	-	(X)	30.1	1	49	(D)		
Wholesalers ³	300.4 2.6	10 (Z)	31 34	1 154.8 20.4	25 (Z) 21	26 30	738.0	11	28 (X)
Manufacturers Federal, State, and local governments	352.7	(Z) 11 2	23 18	963.7 57.1	1	28 23	3 508.2 369.8	50 5	(X) 32 37 32
All other	1 819.9	58	19 (X)	1 090.8 (X)	24 5	24 (X)	276.7 (X)	4	32 (X)
Adjustment ratio ⁵	1	(X)	(x)	13	(x)		45	(X)	(X)

Table 1. Manufacturers' Shipments by Product Group and Class of Customer: 1987—Con. [For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

For meaning of appreviations and symbols, see introductory text. For explan	ation of terms,	see appendi	xes]						
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
		rbon and g products	raphite		ays and in	dustrial		ectrical incaratus, n.e	
Total product shipments ²	1 196.2	100	(X)	6 040.3	100	(X)	1 163.7	100	(X)
Shipments to other establishments of same company:	1 150.2	100	(^)	0 040.0	100	(^,	1 100.7		(^,
Wholesale establishments (including sales offices) ³ Retail stores and outlets	-	-	(X) (X)	176.1	3	39	6.7	1	70 70
Other manufacturing establishments	78.4	7	31	0.8 1 1 18.7	(Z) 19	74 26	4.8 120.3	(Z) 10	76
Other nonmanufacturing establishments	-	-	(X)	20.2	(Z)	56	5.0	(Z)	50
Shipments to all other customers: Wholesalers³	19.2	2	37	1 836.6	30	34	150.6	13	27
RetailersManufacturers	6.3 1 064.5	1 89	51 25	29.4 2 261.4	(Z) 37	36 22	6.3 529.0	1 45	70 35
Federal, State, and local governmentsAll other	5.2	(Z) 2	48	142.2	2	28	54.7	5 25	36 35
Resales ⁴	22.6 (X)	7	43 (X)	454.9 (X)	8	28 (X)	286.2 (X)	23	(X)
Adjustment ratio ⁵	27	(X)	(×)	37	(X)	(x)	49	(X)	(×)
7.4900.00.00.00.00.00.00.00.00.00.00.00.00.									
		ousehold c equipment	ooking	3632, Hous an	ehold refr d freezers			usehold la quipment	aundry
Total product shipments ²	3 232.5	100	(X)	3 322.1	100	(X)	2 790.5	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	326.3	10	47	458.1	14	24	(D)	(D)	(X)
Hetail stores and outletsOther manufacturing establishments	1.9 61.6	(Z) 2	39 48	97.0	3	(X) 24	(D)	(D)	(X) (X) (X) (X)
Other nonmanufacturing establishments	-	_	(X)	-	-	(X)	(D)	(D)	(X)
Shipments to all other customers: Wholesalers³	799.0	25	23	576.3	17	16	(D)	(D)	(X)
RetailersManufacturers	1 851.8	57	33	2 068.0	62	21	(D)	(D)	(X) (X) 18
Federal, State, and local governments	127.5 6.1	(Z) 2	26 27	84.8 7.8	3 (Z)	19 21	17.2 (D)	(D)	(X) 22
All other	58.3		24	30.1	1	16	12.9	(Z)	22 (X)
Adjustment ratio ⁵	(X) 26	22 (X)	(X) (X)	(X) 9	(D) (X)	(X) (X)	(X)	(D) (X)	(×)
							2000 11-11		
	3634, Electric housewares and fans			3635, Household vacuum cleaners			3639, Hou	n.e.c.	pliances,
Total product shipments ²	2 589.1	100	(X)	1 290.6	100	(X)	2 284.7	100	(X)
Shipments to other establishments of same company:							(T)	(7)	00
Wholesale establishments (including sales offices) ³	337.7 53.4	13	56 55	31.8	2	34 (X)	(D) 20.9	(D) 1	(X) 75
Other manufacturing establishmentsOther nonmanufacturing establishments	22.3 31.5	1 1	45 64	2.6	(Z)	46 (X)	(D) (Z)	(D) (Z)	(X) 75 (X) (X)
Shipments to all other customers:		· ·				(-7		(-/	` '
Wholesalers ³ Retailers	448.9 1 549.1	17 60	28 18	55.2 807.5	4 63	28 28	1 007.4 799.4	44 35	1
ManufacturersFederal, State, and local governments	101.2 17.2	4	67 33	5.1 0.5	(Z) (Z) 30	46 33	(D) (D)	(D) (D)	(X) (X) (X)
All other	27.9	i	42	387.7	30	45	(D)	(D)	
Resales ⁴	(X)	9	(X)	(X)	4	(X)	(X)	1	(X)
Adjustment ratio ⁵	32	(X)	(X)	21	(X)	(X)	-6	(X)	(X)
	3641, Elec	tric lamp b tubes	ulbs and	3643, Curre	ent-carryir devices	ng wiring		ncurrent-c ing device	
Total product shipments ²	2 988.3	100	(X)	3 864.0	100	(X)	2 798.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	63.6	2	86	539.7	14	34	272.1	10	28
Retail stores and outlets Other manufacturing establishments Other manufacturing establishments	54.0	- 2	(X) 53	130.4	3	58 25	45.1	- 2	(X) 40
Other nonmanufacturing establishments	164.7	6	67	412.4 10.6	11 (Z)	58	45.1	-	(X)
Shipments to all other customers: Wholesalers3	2 538.4	85	63	001.0	0.4	22	1 761.8	63	15
Hetailers	25.2	1	48	931.3 229.8	24 6	51	49.7	2	41
ManufacturersFederal, State, and local governments	93.0 15.7	3	50 87	1 267.7 49.9	33 1	19 39	308.5 22.1	11	34 31
All other	33.8	1	49	292.2	8	38	338.7	12	35
Resales ⁴ Adjustment ratio ⁵	(X)	3 (X)	(X) (X)	(X) 34	2 (X)	(X) (X)	(X) 23	3 (X)	(X) (X)
				1					
	3043, NE	sidential li fixtures	griting		nmercial I fixtures	ignung		ehicular lig quipment	
Total product shipments ²	1 772.1	100	(X)	2 644.4	100	(X)	1 366.3	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	1.9	(Z)	50	30.5	2	74
Retail stores and outletsOther manufacturing establishments	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)	30.0	1	(X) 42	20.9 1 014.9	2 74	74 31
Other nonmanufacturing establishments	(Š)	(s)	(×)	-	-	(X)	-	-	(X)
Shipments to all other customers: Wholesalers3	(S)	(S)	34	1 531.9	58	28	76.3	6	46
Manufacturers	(S)	(S) (S) (S)	(X) (X)	164.6 63.0	6 2	44 55	174.8	13	(X) 34
Federal, State, and local governmentsAll other	(S) (S) (S) (S) (S)	(S) (S) (S)	(x)	21.2 831.9	1	63 61	(Z) 49.0	(Z)	(X) 41
Resales ⁴	(X)	(5)	(X) (X)	(X)	1	(X)	(X)	(D)	(X)
Adjustment ratio ⁵		(X)	(x)	40	(×)	(X)	17	(X)	(X)
See footnotes at end of table			, ,						

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explan	ation of terms,	see appendi	xes]	,					
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3648, Lig	hting equi	pment,	3651, Hou	sehold au o equipme		3652, Prere	corded re tapes	cords and
Total product shipments ²	1 700.7	100	(X)	5 925.3	100	(X)	1 859.4	100	(X)
Shipments to other establishments of same company:									
Wholesale establishments (including sales offices) ³ Retail stores and outlets	10.5	1 -	52 (X)	1 746.6 131.5	29 2	26 56	704.0	38	(X) 86
Other manufacturing establishmentsOther nonmanufacturing establishments	39.7 (Z)	(Z)	65 (X)	306.5 1.0	5 (Z)	43 56	179.2	10	86 (X)
Shipments to all other customers: Wholesalers3	948.3	56	29	2 051.0	35	26	760.2	41	23
RetailersManufacturers	282.4 77.7	17	46 47	966.1 332.6	16 6	25 34	91.8 78.7	5 4	51 59
Federal, State, and local governmentsAll other	120.3 221.6	7	88 44	60.8 329.3	1	31	4.6 40.8	(Z)	50 43
Resales ⁴	(X)	4	(X)	(X)	2	(X)	(X)	1	(X)
Adjustment ratio ⁵	49	(X)	(X)	31	- (X)	(X)	25	(X)	(X)
		Telephone aph appar		3663, Rac	lio and tel ations eq			Communication	
Total product shipments ²	16 528.5	100	(X)	13 255.9	100	(X)	2 126.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	8 613.7	52	33	287.6	2	26	46.0	2	26
Retail stores and outlets Other manufacturing establishments	31.5 1 019.5	(Z) 6	83 25	294.0	_ 2	(X) 18	52.5	2	(X) 18
Other nonmanufacturing establishments	24.4	(Z)	37	16.7	(Z)	45	2.4	(Z)	45
Wholesalers3Retailers	3 833.3 188.0	23 1	30 28	755.0 397.0	6	18 33	122.6 63.1	6	18 19
ManufacturersFederal, State, and local governments	656.2 772.2	4 5	25 31	1 648.5 8 624.8	12 65	18 12	263.8 1 378.7	12 65	18 12
All otherResales ⁴	1 389.6 (X)	8	12 (X)	1 232.3 (X)	9	12 (X)	196.8 (X)	9	12 (X)
Adjustment ratio5	17	(X)	(X)	31	(X)	(X)	36	(X)	(×)
	3671, Electron tubes 36			3672, Prin	ted circuit	boards		miconduct ated device	
Total product shipments ²	2 332.3	100	(X)	4 813.9	100	(X)	17 928.8	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices)3	(6)	(6)	` '	264.1	_	29	641.7	4	7
Retail stores and outlets Other manufacturing establishments	(S) (S)	(S) (S) (S) (S)	(X) (X) (X)	9.5	5 (Z) 27	74 41	4 105.8	23	(×)
Other nonmanufacturing establishments	(S) (S)	(S)	(X)	3.9	(Z)	52	32.1	(Z)	19
Wholesalers ³ Retailers	(S)	(S)	51	264.3	5	21	1 428.5	8	4
Manufacturers Federal, State, and local governments	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)	42.9 1 521.4 496.9	1 32 10	32 9 30	46.4 10 514.3 348.3	(Z) 59 2	39 17
All other			(X) (X)	889.7	18	27	811.8	5	9
Resales ⁴ Adjustment ratio ⁵	(X) (S)	3 (X)	(X) (X)	(X) 13	1 (X)	(X) (X)	(X)	9 (X)	(X) (X)
		tronic car			ctronic re			ectronic co	oils and
Total product shipments ²	1 307.2	100	(X)	860.2	100	(X)	1 184.9	ansformer:	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³				555.2					
Retail stores and outlets	30.7 (D) 43.0	(D) 3	63 (X) 57	39.5	- 5	(X) (X) 43	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Other nonmanufacturing establishments	(Z)	(Z)	(X)	-	-	(X)	(S)	(S)	(X)
Wholesalers ³ Retailers	182.7	14	53	172.8	20	40	(S)	(S)	68
Manufacturers Federal, State, and local governments	(Z) 996.7	(Z) 76	(X) 26	(Z) 644.3	(Z) 75	(X) 35	(S) (S)	(S) (S) (S)	(X) (X) (X) (X)
All other	(D) 50.9	(D) 4	(X) 42	3.2 0.5	(Z) (Z)	54 53	(S) (S)	(S)	
Resales ⁴	(X) 41	3 (X)	(X) (X)	(X) 47	3 (X)	(X) (X)	(X) (S)	2 (X)	(X) (X)
	3678, Elec	1.1.1		3679, Electi	onic com			torage bat	
Total product chings are:					n.e.c.			100	
Total product shipments ² Shipments to other establishments of same company:	3 731.4	100	(X)	14 563.0	100	(X)	3 194.7	100	(X)
Wholesale establishments (including sales offices) ³	351.4	9	37 (X)	683.4 (D)	5 (D)	29 (X)	583.7 3.2	18 (Z)	60 78
Other manufacturing establishmentsOther nonmanufacturing establishments	326.4 134.6	9	(X) 33 77	4 002.9 (D)	27 (D)	41 (X)	501.8	16	60 (X)
Shipments to all other customers: Wholesalers3	257.6	7	34	806.3	6	21	228.7	7	34
Manufacturers	257.6 1.4 2 256.3	(Z) 60	40 24	133.0 4 619.7	1 32	32	1 259.9 602.6	39 19	60 33
Federal, State, and local governmentsAll other	163.7 240.1	4 6	46 37	1 573.0 2 704.0	11	30 27	12.7 2.1	(Z) (Z)	60 33 65 57
Resales ⁴	(X)	2	(X)	(X)	2	(X)	(X)	1	(X)
Adjustment ratio ⁵	32	(X)	(X)	37	(X)	(X)	57	(X)	(X)

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

[For meaning of abbreviations and symbols, see introductory text. For explanations are supplied to the symbols of the symbol of the sym	ation of terms,	see appendix	es]				,		
Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3692, Prim				ngine elec			netic and	
		and wet	,		quipment			rding med	
Total product shipments ²	1 919.3	100	(X)	6 337.9	100	(X)	3 7 78.8	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	133.7	7	36	475.0	7	22	428.0	11	29
Retail stores and outletsOther manufacturing establishments	259.1	14	(X) 28	3 033.5	48	(X) 23	38.5 767.9	1 20	74 41
Other nonmanufacturing establishments	-	-	(X)	-	-	(X)	3.1	(Z)	52
Wholesalers ³ Retailers	324.2 (D)	17 (D)	24 (X)	825.9 325.2	13 5	22 25	245.5 90.8	6 2	21 32
ManufacturersFederal, State, and local governments	(D) 49.9	(D)	(X) 16	(D) (D)	(D) (D)	(X) (X)	869.9 322.0	23	9
All other	9.9	1	21	107.9	2	15	1 013.1	27	27
Adjustment ratio ⁵	(X) 7	(D) (X)	(X) (X)	(X)	4 (X)	(X) (X)	(X) 37	5 (X)	(X) (X)
		ctrical equ	ipment	37, Transpe			3711, Moto		and car
	and s	upplies, n.	e.c.	or, manape	ortation et	dubillent		bodies	
Total product shipments ² Shipments to other establishments of same company:	5 525.1	100	(X)	322 168.9	100	(X)	130 856.8	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	120.7	2	26 (X)	21 643.0 1 355.0	7 (7)	15 18	(D) (D)	(D)	(X) (X) 16
Other manufacturing establishmentsOther nonmanufacturing establishments	156.8 3.8	3 (Z)	19 36	39 443.9 369.6	(Z) 12 (Z)	18 21	291.8	(D) (Z)	16 (X)
Shipments to all other customers: Wholesalers3	1 135.2	21	20	18 690.6	6	8	8 443.6	6	12
Retailers Manufacturers	305.2 996.8	6 18	31 26	104 518.6 28 317.7	32 9	15 6	(D) 2 076.6	(D) 2	(X) 17
Federal, State, and local governmentsAll other	2 208.1 598.6	40 11	18 37	75 348.9 31 575.9	23 10	2	2 428.0 5 360.8	2 4	13 17
Resales ⁴ Adjustment ratio ⁵	(X) 30	3 (X)	(X)	(X)	2	(X)	(X)	1 (X)	(X) (X)
, specificity and			(X)	3714, Moto	(X)	(X)			
	3713, Truck and bus bodies				cessories	arto arra	3715,	Truck trai	lers
Total product shipments ²	4 482.4	100	(X)	6 0 816. 0	100	(X)	3 138.1	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³ Retail stores and outlets	97.1 (D)	2	41	1 581.5	3	15	241.2 84.3	8 3	56 59
Other manufacturing establishments Other nonmanufacturing establishments	29.3 (D)	(D) 1 (D)	(X) 38 (X)	(D) 34 110.9 (D)	(D) 56 (D)	(X) 20 (X)	9.0 114.2	(Z)	59 59
Shipments to all other customers: Wholesalers³	1 299.4	29	38	4 941.3	8	13	377.1	12	41
Retailers Manufacturers	1 562.8	35	23 18	2 756.1 11 461.7	5 19	23	715.5 17.1	23	30 52
Federal, State, and local governments All other	551.0 794.8	12 18	13 18	1 813.4 4 037.9	3 7	22 14	88.1 1 491.5	3 48	30 44
Resales ⁴	(X)	3	(X)	(X)	3	(X)	(X)	4	(X)
Adjustment ratios	11	(X)	(X)	9	(X)	(X)	34 Air	(X) craft engir	(X)
	3716,	Motor hon	nes	372	21, Aircraft			gine parts	
Total product shipments ² Shipments to other establishments of same company:	2 373.5	100	(X)	36 002.8	100	(X)	18 821.9	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	57.6	- 2	(X) 81	(D) (D)	(D) (D)	(X) (X)	-	-	(X) (X)
Other manufacturing establishments Other nonmanufacturing establishments		=	(X) (X)	444.6 (D)	(D)	1 (X)	57.9 1.2	(Z) (Z)	14 26
Shipments to all other customers: Wholesalers ³	764.0	32	43	(D)	(D)	(X)	129.9	1	20
Hetailers Manufacturers	1 438.3 74.0	61	38 35	(D) 1 789.1	(D) 5	(X) 1	36.0 6 143.4	(Z) 33	29 19
Federal, State, and local governmentsAll other	(Z) 59.6	(Z) 2	(X) 32	20 742.9 (D)	58 (D)	1 (X)	9 655.3 2 798.3	51 15	20 24
Resales ⁴ Adjustment ratio ⁵	(X) 32	2 (X)	(X) (X)	(X) -5	3 (X)	(X) (X)	(X) 10	3 (X)	(X) (X)
		rcraft part			ip building			oat buildin	
		ment, n.e.			epairing			repairing	
Total product shipments ² Shipments to other establishments of same company:	19 528.9	100	(X)	8 343.1	100	(X)	5 218.6	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	11.0 109.2	(Z)	81 53	6.4	(Z)	41 (X)	55.2 159.8	1 3	83 89
Other manufacturing establishmentsOther nonmanufacturing establishments	3 415.4 13.3	17 (Z)	39 50	(D) (D)	(D) (D)	(X) (X)	24.6	(Z)	42 (X)
Shipments to all other customers: Wholesalers ³	87.7		26	(D)	(D)		1 181.6	23	56
Retailers Manufacturers	68.2 4 984.3	(Z) (Z) 26	32 18	104.6 151.3	1 2	(X) 52 17	3 397.9 302.8	65 6	29 48
Federal, State, and local governmentsAll other	9 306.8 1 532.9	48 8	22 37	7 305.3 (D)	88 (D)	8 (X)	39.7 56.9	1	32 28
Resales ⁴ Adjustment ratio ⁵	(X)	(D)	(X)	(X)	1	(X)	(X) 32	2 (X)	(X) (X)
reposition (and	28	(X) 1	(X)	5 l	(X)	(X) I	32 1	(\times)	(^)

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3743, Ra	ilroad equ	ipment	3751, Moto	orcycles, i	oicycles,		ided miss	
Total and deat at the second		1							1
Total product shipments ² Shipments to other establishments of same company:	2 138.6	100	(X)	1 152.4	100	(X)	16 012.3	100	(X)
Wholesale establishments (including sales offices) ³	-	-	(X)	201.1	17	50	-	-	(X) (X)
Retail stores and outlets	336.0	16	(X) 57	-	_	(X) (X)	148.6	1	1
Other nonmanufacturing establishmentsShipments to all other customers:	52.6	2	51	-	-	(X)	(Z)	(Z)	(X)
Wholesalers ³	5.4	(Z)	84	258.0	22	40 34	(D)	(D) (D)	(X)
Manufacturers	139.3	7	(X) 32	573.9 49.2	50 4	33	(D) (D)	(D)	(X) (X) (X)
All other	230.5 1 374.8	11 64	49 31	20.3 50.0	2 4	49 50	14 621.5 (D)	91 (D)	(×)
Resales ⁴	(X)	4	(X)	(X)	5	(X)	(X)	(D)	(X)
Adjustment ratio ⁵	33	(X)	(X)	25	_ (X)	(X)	-14	(X)	(X)
	3764, Spac	e propuls and parts	ion units		Space vet		3792, T	ravel traile campers	ers and
Total product shipments ²	3 464.9	100	(X)	3 354.4	100	(X)	1 871.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³			(X)			(X)			(X)
Retail stores and outlets Other manufacturing establishments	(D)	(D)	(X)	62.9	- - 2	(A) (X) 22	243.3	13	(X) 48 (X)
Other nonmanufacturing establishments	(0)	(U)	(X) (X)	62.9	2	(X)	-	=	(X) (X)
Shipments to all other customers: Wholesalers3	_	_	(X)	_	_	(X)	656.0	35	33
Retailers Manufacturers	(D) 164.3	(D) 5	(X)	494.8	- 15	(X) (X) 30	742.2 227.7	40 12	40 37
Federal, State, and local governmentsAll other	2 994.3 (D)	86 (D)	(X)	2 731.7 64.9	81 2	17 28	1.8	(Z)	(X) 43
Resales ⁴	(X)	(D)	(X)	(X)	(D)	(X)	(X)	4	(X)
Adjustment ratio ⁵	-3	(X)	(X)	14	(X)	(X)	39	(X)	(X)
·	3795, Tanks and tank components				ransporta			ments and products	related
Total product shipments ²	3 016.9	100	(X)	1 576.3	100	(X)	98 759.4	100	(X)
Shipments to other establishments of same company:	3 010.3	100	(^)	1 370.3	100		30 733.4		
Wholesale establishments (including sales offices) ³	33.4	1 -	34 (X)	59.4 85.7	4 5	53 65	11 748.7 515.5	12	9 48
Other manufacturing establishments Other nonmanufacturing establishments	66.3	2 -	23 (X)	352.0 2.1	22 (Z)	58 65	3 538.0 931.7	4	11 17
Shipments to all other customers: Wholesalers ³	(D)	(5)		500.0	34	00	13 317.3	13	12
Retailers Manufacturers	(D) - 59.8	(D)	(X) (X)	528.9 121.6	8	30 36	4 944.2 14 593.8	5	11 7
Federal, State, and local governments	2 816.3	93	19 18	62.6	4 (Z) 23	66 36	26 582.9	15 27 23	12 7
All other	(D) (X)	(D) (D)	(X) (X)	360.3 (X)	23	49 (X)	22 587.3 (X)	3	(X)
Adjustment ratio ⁵	11	(X)	(X)	42	(X)	(X)	28	(X)	(X)
	3812, Sear	ch and na quipment	vigation	3821, Labo	oratory ap		3822, Envi	ronmental	controls
Total product shipments ²	34 016.9	100	(X)	1 618.8	100	(X)	2 024.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	601.0			50.4	3	73	E0 A	3	27
Retail stores and outlets Other manufacturing establishments	681.2	2	26 (X)	52.4	-	(X) 36	58.4	9	(X) 26
Other nonmanufacturing establishments	1 004.9 38.5	3 (Z)	18 45	101.2 0.3	6 (Z)	55	185.1 107.3	5	42
Shipments to all other customers: Wholesalers3	1 917.1	6	18	266.3	16	34	346.6	17	32
Retailers Manufacturers	876.4 4 207.1	3 12	19	21.1 458.8	1 28	34 25	43.0 1 168.6	2 58	26 14
Federal, State, and local governmentsAll other	21 694.0 3 597.7	64	12	425.9 292.9	26 18	42 26	9.0 106.6	(Z) 5	40 25
Resales ⁴	(X)	(Z)	(X)	(X)	5	(X)	(X)	4	(X)
Adjustment ratio ⁵	31	(X)	(X)	28	(X)	(X)	18	(X)	(X)
		rocess co struments	ntrol		uid meters ting devic		3825, Instr	uments to electricity	measure
Total product shipments2	4 370.9	100	(X)	1 133.1	100	(X)	7 612.3	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	51.2	1	63	9.1	1	49	292.5	4	36
Retail stores and outletsOther manufacturing establishments	322.5	7	(X) 47	40.0	- 4	(X) 48	185.3	2	(X) 27
Other normanulacturing establishments	14.3	(Z)	79	-		(X)	0.5	(Z)	51
Shipments to all other customers: Wholesalers3	776.3	18	29	222.1	20	32	671.5	9	29
Manufacturers	139.0 1 983.1	3 45	55 23	171.1	15	(X) 36	664.6 2 189.7	9 29	39 15
Federal, State, and local governmentsAll other	188.8 895.7	4 20	29 26	62.4 628.4	6 55	52 42	1 319.7 2 288.4	17 30	15 19
Resales ⁴	(X)	3	(X)	(X)	2	(X)	(X)	3	(X)
Adjustment ratio ⁵	46	(X)	(X)	54	(X)	(X)	27	(X)	(X)

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3826, Ana	lytical inst	ruments	3827, Optio	al instrum	ents and		Measuring	
Total product chipments?	0.450.0	400	(V)	4 000 0		(%)			
Total product shipments ² Shipments to other establishments of same company:	3 156.6	100	(X)	1 990.2	100	(X)	3 389.3	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	169.1	5	37 (X)	129.2	6	37 (X)	122.8	4	52 (X)
Other manufacturing establishments	1 52.8	2	(X) 57 52	29.2 19.9	1	(X) 57 52	161.5 0.4	5 (Z)	46
Shipments to all other customers:		'	32	15.5	'	32	0.4	(2)	•
Wholesalers ³ Retailers	377.5 111.8	12 4	30 50	212.2 70.9	11 4	30 50	414.7 49.6	12 1	38 36
ManufacturersFederal, State, and local governments	853.0 612.1	27 19	19 22	541.3 433.4	27 22	19 22	957.5 531.7	28 16	36 22 32
All other	948.9	30	21	554.0	28	21	1 151.1	34	29
Resales ⁴	(X) 35	4 (X)	(X) (X)	(X) 54	4 (X)	(X) (X)	(X) 37	(X)	(X) (X)
		1,7						1	
		gical and i struments	neuicai	3842, Surgi	supplies	nces and	3043, Dei	ntal equipn supplies	ieiii aiiu
Total product shipments ²	7 231.7	100	(X)	7 981.3	100	(X)	1 241.3	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	312.0	4	30	326.1	4	31	134.3	11	36
Retail stores and outlets Other manufacturing establishments	40.8 149.3	1 2	49 58	1.1 (D) (D)	(Z) (D)	74 (X) (X)	9.1	1	(X) 53
Other nonmanufacturing establishments Shipments to all other customers:	119.6	2	66	(D)	(D)	(X)	0.1	(Z)	77
Wholesalers ³ Retailers	2 738.9 166.7	38	41 36	2 366.8 1 309.4	30 16	25 21	524.0 95.5	42 8	33 66
ManufacturersFederal, State, and local governments	303.1 85.8	4	26 20	362.6 447.0	5	32 27	200.3 55.2	16	48
All other	3 315.5	46	16	2 778.3	35	25	222.9	18	35 38
Resales ⁴ Adjustment ratio ⁵	(X)	5 (X)	(X) (X)	(X) 32	5 (X)	(X) (X)	(X) 51	9 (X)	(X) (X)
	3844, X-ra	ay apparat		3845, E	Electrome		3851, O	phthalmic	
		tubes	-		quipment				
Total product shipments ²	1 556.8	100	(X)	3 513.3	100	(X)	1 445.1	100	(X)
Wholesale establishments (including sales offices) ³	57.8	4	35 (X)	319.5	9	35 (X)	36.0 244.9	2 17	27 93
Other manufacturing establishmentsOther nonmanufacturing establishments	17.9 85.9	1	34 57	40.9 181.7	1 5	(X) 34 57	0.7 3.1	(Z) (Z)	42 46
Shipments to all other customers:									
Wholesalers ³ Retailers Manufacturers	71.1	5 (Z) 9	23 54	150.4 10.0	4 (Z)	23 54	316.4 177.6	22 12	25
Federal, State, and local governmentsAll other	140.4 79.6	5	27 26	285.7 168.3	8 5	27 26	240.9 5.9	17 (Z) 29	34 25 32 31 31
Resales ⁴	1 099.4 (X)	71 7	20 (X)	2 356.9 (X)	67	20 (X)	419.6 (X)	12	(X)
Adjustment ratio ⁵	41	(X)	(X)	30	(X)	(X)	21	(X)	(X)
	3861, Photographic equipment and supplies				atches, cl			discellaned	
Total product shipments ²	15 325.3	100	(X)	1 151.9	100	(X)	29 500.6	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	8 995.7	59	10	1.5	(7)	58	3 309.4	11	21
Retail stores and outlets Other manufacturing establishments	3.6 (D)	(Z) (D) (D)	67 (X)	225.0 169.9	(Z) 20 15	43 55	1 268.0 876.4	4 3	33 30
Other nonmanufacturing establishments Shipments to all other customers:	(D)	(D)	(X)	-	- 1	(X)	239.3	1	63
Wholesalers ³	1 765.1 879.6	12	11	180.3	16	27 30	7 449.7	25 34	11 9
Manufacturers	346.6 458.1	6 2 3	14 24	324.5 183.9	28 16	37	10 082.6 3 348.0 507.1	11 2	14 29
All other	1 870.2	12	14 12	5.9 60.9	1 5	40 77	2 420.1	8	17
Resales ⁴ Adjustment ratio ⁵	(X) 2	7 (X)	(X) (X)	(X) 34	9 (X)	(X) (X)	(X) 51	7 (X)	(X) (X)
, , , , , , , , , , , , , , , , , , ,		(77)	(//)	3914, Silve			3915, Jewe		
	3911, Jewe	Iry, precio	us metal	3314, 31146	ware	piateu .		idary wor	
Total product shipments ²	3 858.3	100	(X)	424.2	100	(X)	910.0	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(S)	(S)	(X)	15.5	4	83	(S)	(S)	(X)
Retail stores and outletsOther manufacturing establishments	(S) (S) (S)	(S) (S) (S) (S)	(X) (X)	1.7 (D)	(Z) (D)	64 (X) (X)	(S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Other nonmanufacturing establishmentsShipments to all other customers:	(S)	(S)	(X)	-	-	(X)	(S)	(S)	(X)
Wholesalers ³	(S)	(S)	(X) (X)	136.2 (D)	32 (D)	52 (X)	(S)	(S) (S)	(X)
Federal, State, and local governments	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(2)	(D) 0.5 3.7	(D) (Z)	(X) 57 1	(S) (S) (S) (S) (S)	(S) (S) (S)	(X) (X) (X) (X) (X)
All other	100		(x)	(D)	(D)	(x)			
Resales ⁴ Adjustment ratio ⁵	(X) (S)	4 (X)	(X) (X)	(X) -2	21 (X)	(X) (X)	(X) (S)	1 (X)	(X) (X)
	(3)	(//)	(//)	٠ -	(//)	(74)	(5)	(//)	(,,)

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Class of customer	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)	Value (million dollars)	Percent of total	Standard error of estimate (percent)
	3931, Mu	sical instru	uments	3942, Dolls	s and stuf	fed toys		iames, toy ren's vehic	
Total product shipments ²	781.3	100	(X)	305.4	100	(X)	2 997.0	100	(X)
Shipments to other establishments of same company:									
Wholesale establishments (including sales offices) ³	(S) (S)	(S) (S)	(X) (X)	(S) (S) (S) (S)	(S) (S)	(X) (X)	79.4	3 -	47 (X) 52
Other manufacturing establishmentsOther nonmanufacturing establishments	(S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X)	- 3 9 .8 1.7	(Z)	52 53
Shipments to all other customers:			, ,				000.6	10	26
Wholesalers3	(S) (S) (S) (S) (S)	(S) (S) (S) (S)	(X) (X)	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)	382.6 2 421.6	13 81	18
ManufacturersFederal, State, and local governments	(S) (S)	(S) (S)	(X) (X)	(S) (S)	(S) (S)	(X) (X)	1.5 21.0	(Z)	4 9 31
All other	(S) (X)	(S)	(X)	(S) (X)	(S) 16	(X) (X)	49.3 (X)	10	35 (X)
Adjustment ratio ⁵	(A) (S)	(X)	(X) (X)	(A) (S)	(X)	(X)	29	(X)	(X)
	3949, Spo	orting and	athletic	3951, Pen	s and med		3952, Lea	ad pencils	and art
The state of the s		ods, n.e.c.		2:00	·	00	450.7		(V)
Total product shipments ² Shipments to other establishments of same company:	4 349.4	100	(X)	919.0	100	(X)	456.7	100	(X)
Wholesale establishments (including sales offices) ³ Retail stores and outlets	698.5 282.5	16 6	60 5 9	161.8	18	50 (X) 50	1.4	- (Z)	(X) (X) 74
Other manufacturing establishmentsOther nonmanufacturing establishments	115.0 4.7	(Z)	48 72	2.9	(Z)	(X)	-	(2)	(X)
Shipments to all other customers: Wholesalers ³	707. 9	16	28	184.0	20	37	300.5	66	61
RetailersManufacturers	1 669.3 325.7	38	24 34	504.7 51.8	55 6	36 34	72.1 32.2	16	51 55
Federal, State, and local governmentsAll other	29.8 516.1	1 12	34 43	1.2 12.8	(Z) 1	46 45	17.4 33.2	4 7	74 74
Resales ⁴	(X)	13	(X)	(X)	2	(X)	(X)	20	(X)
Adjustment ratios	53	(X)	(X)	25	(X)	(X)	55	(X)	(X)
	3953, N	Marking de	vices	3955, Carbo	on paper a ribbons	ind inked	3961, C	Costume je	ewelry
Total product shipments ²	455.9	100	(X)	821.1	100	(X)	1 265.0	100	(X)
Shipments to other establishments of same company:	(6)	(6)	(%)	33.5	4	82	(S)	(S)	(X)
Wholesale establishments (including sales offices) ³	(S) (S)	(S) (S) (S) (S)	(X) (X)	112.2	14	82 58	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Other manufacturing establishmentsOther nonmanufacturing establishments	(S) (S)	(S)	(X) (X)	77.6	-	(X)	(S)	(S)	(X)
Shipments to all other customers: Wholesalers ³	(S)	(S)	(X)	194.5	24	46	(S)	(S)	(X)
RetailersManufacturers	(S) (S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X)	71.4 185.0	9 23	57 30	(S) (S) (S) (S)	(S) (S) (S) (S) (S)	(X) (X) (X) (X) (X)
Federal, State, and local governmentsAll other	(S)	(S)	(X) (X)	22.5 124.5	3 15	59 64	(S) (S)	(S) (S)	(X) (X)
Resales ⁴	(X)	8	(X)	(X)	4	(X)	(X)	14	(X)
Adjustment ratios	(S)	(X)	(X)	55	(X)	(X)	(S)	(X)	(X)
		3965, Fasteners, buttons, needles, and pins 3991, Brooms and brushes				3993, Signs and advertising specialties			
Total product shipments ²	676.5	100	(X)	856.3	100	(X)	3 885.7	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	(D)	(D)	(X)	70.1	8	42	(S)	(S)	(X)
Retail stores and outletsOther manufacturing establishments	39.9	6	(X) (X) 59	6.7	- 1	(X) 50	(S) (S) (S)	(S) (S) (S) (S)	(X) (X) (X) (X)
Other nonmanufacturing establishments	66.8	10	59	0.4	(Z)	59	(S)	(S)	(X)
Shipments to all other customers: Wholesalers3	181.2	27	48	323.4	38	44 43	(S)	(S) (S)	(X)
Retailers Manufacturers	(D) 132.3	(D) 20	(X) 20	312.5 115.4	36 13	57	(S) (S) (S)	(S) (S)	(X) (X) (X) (X) (X)
Federal, State, and local governments	11.1 (D)	(D)	(X)	1.6 26.2	(Z) 3	57 42	(S) (S)	(S)	
Resales ⁴	(X)	3	(X)	(X)	12	(X)	(X)	5	(X)
Adjustment ratio ⁵	-10	(X)	(X)	35	(X)	(X)	(S)	(X)	(X)
	3995,	Burial cas	kets		ard surface erings, n.e		3999, Manu	n.e.c.	industries,
Total product shipments ²	798.1	100	(X)	1 240.6	100	(X)	4 500.1	100	(X)
Shipments to other establishments of same company: Wholesale establishments (including sales offices) ³	516.4	65	41	(D)	(D)	(X)	274.1	6	68
Retail stores and outletsOther manufacturing establishments	35.5	- 4	(X) 51	1.4	(Z)	(X) 45	457.7 16.4	10 (Z) (Z)	63 33
Other nonmanufacturing establishments	-	-	(X)	-	-	(X)	8.1	(Z)	66
Shipments to all other customers: Wholesalers3	126.4	16	47	1 018.3	82	4	1 496.6	33 16	9 9
Retailers	63.2 42. 9	8 5	46 49	(D) (D)	(D) (D)	(X) (X)	720.2 807.7	18	80 33 54 22
Federal, State, and local governments	13.7	2	(X) 39	4.4 3.6	(Z) (Z)	3 9 41	27 9 .5 43 9 .7	10	
Resales ⁴	1 ''	2	(X)	(X)	(D)	(X)	(X)	4	(X)
Adjustment ratio ⁵	42	(X)	(X)	-2	(X)	(X)	48	(X)	(X)

¹See table 2 for additional information on shipments of food products (SIC 20) to retail establishments.

²Total product shipments published in table 1, chapter 3 of the 1987 Census of Manufactures General Summary report excludes shipments of products bought and resold without further

Table 2. Shipments of Food Products to Eating and Drinking Places: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

				Sh	ipments of fo	od products	(million dolla	rs)				Percent of
1987				ores and out		To retailer	s outside the	company	-	To eating	Percent of shipments	retail shipments to eating
SIC	Industry group and industry	Total ¹	Total	Eating and drinking places ²	Other establish- ments ³	Total	Eating and drinking places ²	Other establish- ments ³	To retail establish- ments (col B + col E)	and drinking places ² (col C + col F)	to reatil establish- ments (col H ÷ col A)	and drinking places (col I ÷ col H)
		А	В	С	D	Е	F	G	н	1	J	K
20	Food and kindred products	305 753.1	8 378.0	666.6	7 711.4	66 344.3	6 082.8	60 261.5	74 722.4	6 749.5	24	9
2011 2013 2015 2021 2022	Meat packing plants Sausages and other prpared meats Poultry slaughtering processing Creamery butter Cheese, natural and processed	41 226.8 14 352.8 14 370.9 1 613.5 10 775.6	145.0 290.6 151.9 (D) 282.2	1.3 0.5 2.0 13.2 (D)	143.7 290.1 149.9 (D) (D)	5 325.1 4 688.0 4 305.7 109.9 761.5	329.2 964.3 212.4 15.0 (D)	4 996.0 3 723.7 4 093.2 94.9 (D)	5 470.2 4 978.6 4 457.6 (D) 1 043.7	330.5 964.8 214.4 28.2 175.2	13 35 31 (D) 10	6 19 5 (D) 17
2023	Dry, condensed, and evaporated dairy products	5 839.3	3.2	(D)	(D)	2 303.0	(D)	(D)	2 306.2	100.4	39	4
2024 2026 2032 2033	lce cream and frozen desserts	4 195.0 16 884.6 4 444.1 12 244.4	474.7 1 802.6 7.4 587.8	63.8 10.1 - -	410.9 1 792.5 7.4 587.8	1 739.6 6 489.5 496.8 4 091.8	66.5 318.0 67.5 513.9	1 673.1 6 171.5 429.3 3 577.9	2 214.2 8 292.1 504.2 4 679.6	130.2 328.1 67.5 513.9	53 49 11 38	6 4 13 11
2034 2035 2037 2038 2041	Dehydrated fruits, vegetables, and soups Pickles, sauces, and salad dressings Frozen fruits and vegetables Frozen specialties, n.c.c. Flour and other grain mill products	2 079.2 4 479.3 6 253.7 5 252.1 4 690.1	48.7 22.6 - 129.0	- - 1.0	48.7 22.6 128.0	297.3 756.3 1 262.8 933.0 244.0	1.2 78.4 39.9 64.6 0.5	296.1 677.9 1 222.8 868.4 243.5	346.0 778.9 1 262.8 1 062.0 244.0	1.2 78.4 39.9 65.6 0.5	17 17 20 20 5	(Z) 10 3 6 (Z)
2043 2044 2045 2046 2047	Cereal breakfast foods Rice milling Prepared flour mixes and doughs Wet corn milling Dog and cat food	5 081.1 1 257.5 2 821.6 4 446.2 4 710.2	(D) 12.6 - 29.5	0.1	(D) 12.5 29.5	(D) 219.3 952.4 2.1 2 062.1	0.4 6.3	(D) 218.9 946.1 2.1 2 062.1	(D) (D) 965.0 2.1 2 091.7	0.4 6.4 -	(D) (D) 34 (Z) 44	(X) (Z) 1 (X) (X)
2048 2051 2052 2053 2061	Prepared feeds, n.e.c. Bread, cake, and related products Cookies and crackers Frozen bakery products, except bread	10 712.9 13 513.0 5 853.2 1 372.7 1 223.0	418.2 1 327.0 168.9 33.7	71.1 - 0.2	418.2 1 255.9 168.9 33.5	1 984.7 2 507.2 1 969.1 243.9 2.8	1.9 733.8 5.9 16.9	1 982.8 1 773.4 1 963.2 227.0 2.8	2 402.9 3 834.2 2 138.0 277.6 2.8	1.9 804.9 5.9 17.1	22 28 37 20 (Z)	(Z) 21 (Z) 6 (X)
2062 2063 2064 2066 2067	Cane sugar refining	2 438.6 1 831.7 6 910.0 3 122.4 868.7	215.0 49.3	24.0	215.0 25.3	544.6 220.4 1 769.0 (D) 41.3	0.7 22.3 13.4	544.6 219.7 1 746.8 (D) 41.3	544.6 220.4 1 984.1 (D) 41.3	0.7 22.3 37.4	22 12 29 (D) 5	(X) (Z) 1 (D) (X)
2068 2074 2075 2076 2077	Salted and roasted nuts and seeds	2 064.4 434.6 7 728.9 490.0 2 168.0	(D) - - - - -	-	(D) - - - -	528.5 24.5 (D) (Z) 5.9	6.7 - - - -	521.9 24.5 (D) (Z) 5.9	(D) 24.5 (D) (Z) 5.9	6.7 - (Z)	(D) 6 (D) (X) (Z)	(D) (X) (X) (X) (X)
2079 2082	Edible fats and oils, n.e.c	4 694.1 13 521.1	28.3 0.1	_	28.3 0.1	255.0 78.9	31.4 18.1	223.6 60.7	283.4 79.0	31.4 18.1	6	11 23
2083 2084 2085	Malt	534.3 3 162.3 3 187.8	1.0	-	1.0	248.6 (D)	45.5 0.6	203.2 (D)	249.6 (D)	45.5 0.6	(X) 8 (D)	23 (X) 18 (D)
2086 2087 2091 2092 2095	Bottled and canned soft drinks	19 611.7 4 925.6 862.2 5 103.7 5 466.6	787.9 18.2 4.2 19.1 142.6	194.8 - - - 7.7	593.1 18.2 4.2 19.1 134.9	5 908.1 999.1 217.1 745.9 2 023.5	786.0 883.0 2.3 88.3 329.8	5 122.1 116.1 214.8 657.6 1 693.7	6 696.0 1 017.3 221.3 765.1 2 166.1	980.8 883.0 2.3 88.3 337.5	34 21 26 15 40	15 87 1 12 16
2096 2097 2098 2099	Potato chips and similar snacks	5 005.8 282.7 974.4 10 670.7	184.1 (S) 59.7 395.8	89.6 (S) - 180.0	94.5 (S) 59.7 215.8	1 911.1 (S) 119.1 3 924.9	49.6 (S) 0.3 99.8	1 861.5 (S) 118.8 3 825.1	2 095.2 (S) 178.8 4 320.7	139.2 (S) 0.3 279.8	42 (S) 18 40	7 (S) (Z) 6

¹Total product shipments is a census universe total as published in table 1, chapter 3 of the 1987 Census of Manufactures General Summary report.
²Includes shipments to restaurants, cafeterias, taverns, nightclubs, etc.
³Includes shipments to food stores, department stores, mail order houses, and chain stores.

anotative.

3Includes sales branches, sales offices, and administrative offices.

4Represents the percent of total product bingments, as reported on the Census of Manufactures, which respondents indicated were products bought and resold without further manufacture.

5Detail shown has been adjusted to account for nonresponse, over and undersampling, and inclusion of resale shipments. The inverse of the ratio shown represents a measure of the level of this adjustment. For further explanation, see Description of Estimating Procedure in the Explanatory Text.



APPENDIX A. Definitions of Class of Customer

WHOLESALE ESTABLISHMENTS OF THE SAME COMPANY (INCLUDING SALES OFFICES)

These are separately operated wholesale establishments owned by or affiliated with manufacturing companies. Included are all sales branches and offices operated as separate establishments owned by manufacturing companies, utilized primarily for selling at wholesale the products manufactured by other establishments of the same company; although they deal, to some extent, in products manufactured by other companies. Shipments by manufacturing establishments to or via such outlets include shipments made either directly to such branches and offices or to outside customers, on order, from such branches and offices.

OTHER WHOLESALERS

This category comprises independent wholesalers purchasing primarily for resale to other businesses; that is, to retailers, to industrial, commercial, institutional, or professional customers, and to other wholesalers. Wholesalers typically do not sell directly to household consumers and farmers. Included as wholesalers are industrial distributors, drop shippers or desk jobbers, voluntary group wholesalers, and retail cooperative warehouses. For the purpose of this report, shipments by meat and poultry manufacturers to meat jobbers and retailers were to be reported as shipments to wholesalers. Textile mill products, other than knitting mill products, shipped to piece goods converters were to be reported as shipments to wholesalers. Shipments and sales to domestic exports also were treated as shipments to wholesalers.

RETAILERS

This category comprises establishments reselling merchandise at retail; that is, for personal, household, or farm consumption. This customer class includes chain stores, mail order houses, department stores, and independent retailers, including independent route salesmen such as bakery and dairy truck distributors selling directly to households. Retail stores operated by a manufacturing company were reported separately from independent retailers.

MANUFACTURERS

For other manufacturing plants of the same company, this item represents interplant transfers (for further processing or manufacture) from one manufacturing plant of the same company to another. For manufacturers outside the company, it represents shipments or sales to other company manufacturing establishments. Manufacture, in addition to activities commonly recognized as such, includes such activities as meatpacking, bakeries and bottling plants, jobbers and converters of knit goods, sheet metal fabricators fabricating products away from construction sites, feed mixers, logging camps, sawmills, machine shops, and lapidary work.

FEDERAL, STATE, AND LOCAL GOVERNMENTS

This category includes shipments and sales to branches and agencies of the Federal Government, including military post exchanges, ships' stores, and similar units. Corporations owned by the Federal Government are similarly included as are shipments and sales under the Mutual Security Program and the Military Defense Assistance Program. Only direct shipments and sales to the Federal Government are covered in this customer class; that is, indirect sales by subcontractors were treated as the class of customer of the prime contractor, usually as a manufacturer. Shipments to State and local governments include shipments to agencies of State and local governments.

ALL OTHER

This category includes private firms and businesses and institutions not considered manufacturers, wholesalers, or retailers. Included are construction companies; mining establishments; transportation; utilities; and hotels, restaurants, and other service-type businesses. Hospitals and schools are similarly included. Also included are export shipments and sales directly to foreign customers and sales to the company's foreign subsidiaries and affiliates. Shipments and sales to domestic exports were treated as shipments to wholesalers.



APPENDIX B. **Report Forms and Product Reference List**



1987 CENSUS OF MANUFACTURES

DISTRIBUTION OF MANUFACTURERS' SALES BY CLASS OF CUSTOMER

OM8 No. 0607-0556: Approval Expires 06/85 In correspondence pertaining to this report, Employer Identification (EI)

IOTICE - Response to this inquiry is required by law (title 13, U.S.
oda). By the semo law, your report to the Census Sureau is confidential.
may be seen only by sworn Cansus amployees end may be used only for
tatistical purposes. The law also provides that copies retained in your files
re immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN).

Note — Please read all instructions on this page before answering items 1-3 on the reverse.

please rofer to this Consue File Number (CFN)	Numbar	MC-9601

Plaasa correct arrors in nama, address, and ZIP Coda. ENTER streat end number if not shown

GENERAL INSTRUCTIONS

(See also specific instructions with Product Group Reference List)

SURVEY DESCRIPTION

As part of the 1987 Census of Menufactures, the Sureau of the Census is conducting this survey on Distribution of Menufacturers' Seles by Class of Customar. This survey is conducted every 10 years and was lest done as part of the 1977 Census of Manufactures. (Similer Information on the sales of wholeselars by class of customer is collected in the Census of Susinces for wholeselars by class of customer is collected in the Census of Susinces for CB-5 198). This survey will provide a current analysis of the marketing of the conduction of the conduct

- HOW TO REPORT Your are requested to provide a summary company level report on the shipment of groups of products as reported by your manufacturing establishments on census forms for 1987. The reference list which accompanies this report shows the product group categories for which class of outcomer information is to be reported. These 4-digit categories for which of the product of the produc
 - the reference list.! Report et FOB fectory value.

 Please Indicate et the top of the columns on this MC-9601 report form those product group codes which best fit the description of your manufacturing end to the same condition (resoles), code 99989 00 products bought and sold in the same condition (resoles), code 99989 00 products bought and sold in the same condition (resoles), code 99989 00 products bought and sold in the same condition (resoles), code 99989 00 product sold the same condition for the proportion product group. Please estimate the percent of each product group which is resoles on line 11. Exclude miscellaneous receipts and receipts for contract end commission work.

 Wa eppreciate that there is no uniform system of sales snalysis and that completaness of records veries considerably among companies. Therafora, it will be necessary for companies to derive estimates based on eny information eveileble es to that type of acconomic activity of their customors.

DESCRIPTION OF CLASS OF CUSTOMER

Shipments to other establishments of this company -

Thase shipmants should be allocated on lines 1 - 4, according to type of business activity of these locations.

- Wholesale establishments line 1 Include not only shipments to wholesale locations but also shipments to or on order from seles branches, sales offices, and edministrative offices which operate primarily to sall products manufactured by your company. These activities are reported on Census of Business Forms C9-5012—C8-5199 and on Form ES 9200, Central Administrativa Offices and Auxiliarias.
- Retail stores and outlets Ilno 2 Report shipments to seperstely
 operated reteil stores which also report in the Canaus of Business for this
 company.
- Menufecturing establishments line 3 Report all transfers or shipments from one manufacturing plant of this compeny to enother whather for further processing, for use as a material or supply, or for resales by tha other plants.

State

REMARKS — Please use this space for any explenetions that may be essential in understanding your reported data.

Other esteblishments — line 4 — Report shipments to other plants of this company such as mining, construction, transportation, communication, services, etc.

Shipments to other compenies, governments, individuals, and for export

Thasa shipments should be allocated according to typa of cuatomer on linea 5—9. Report shipments on consignmont aa though tha merchandisa had been sold at tha time of the shipmant. If such consignment shipmants are tu agents, consider tha agent as a wholesaler.

- Wholesalers line 5 Report shipments to companies that are purchasing primerily to tasall the products to other businesses or institutions. Include industrial distributors, drop shippers, desk jobbers, voluntary group wholeselers, ratall cooperative warshouses, end exporters.
- Ratailars line 6 Report shipmonts to oating and drinking placas, chain stores, mail order houses, department stores, independent retailars, including Independent route selesmen such as bakery or deiry truck distributors who sell diractly to households. Include shipments to lumbor yards; paint, glass, and wellpaper stores; elactrical aupply stores; harting aquipment dealers; farm and garden supply stores; end farm aquipment dealers.
- Manufacturers line 7 Includa as manufacturera, food processors such as mast packers, bakarias, dairias, end bottling plants; sheat matal oparations; fcad mixars; loggars; sewmills; printing; publishing; raedy mixed concreta; apparal jobbers; and machina shops.
- Faderal, State, and local governments line 8 Include sales to all branches and egencies of ell levals of government and to corporations owned by the Faderal Government. If you have seles as a subcontractor on a government contract, report your eales according to the activity of the prima contractor for whom you did the work.
- . Other line 9 Includes the following:
 - e. Construction companies
 - b. Mining companias c. Utility companias
 - d. Trensportation compenies

 - . Privata and public institutions (o.g., hospitals and schools)
 - t, Banks
 - g. Hotals h. Individuals
 - i. Housaholds
 - j. Farmers

 - k. Exports (Include products directly exported by your company. Products shipped to export intermediarias should be reported as shipped to wholaselars.)

CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions Mo. | Year Name of person to contact regarding this report - Print or type FROM: Mo. Year Telephone TO: Aree code Number Period covered by this report Address - Number and street Signature of authorized person

ZIP Code

Date

City

001 000 000 000 001 001 001 001 001 001	000 000 000 001 001 001 001 001 001 001	Thou.	Code	Thou	Code Mil.	Thou. Dol.	Code		Code		Poo		Code		Соф	•	[®] CO [®]	9	Code	9	
Tiem 1 — Distribution of seles by cleas of customer No. Class of customer		Thou.	*		Mil.						_										
Shipments to other company astabilishments of this company Amulfacturing satebilshments (include those astabilshments asses blackness, sales offices, and administrative offices) Shipments to deministrative offices and culeta (See item 3) Shipments to companies, sales blackness and outlets (See item 3) Other (where processing) Manufacturing satebilshments (bodder including construction, atc.) Shipments to service, transportation, communication, atc.) Manufacturers Other (including construction, mining, utility, and transportation companies, private and coffer and products and outlets			40			_	ĕ	Thou. Dol.	Ξij	Thou. Dol.	Σ	Thou. Dol.	Ĭ.	Thou.	Dol. Mili,	Thou	Dol. MII.	Thou	Dol. Mil.		Dol.
Retail atores and outlats (See item 3) Amanufacturing astebiishments (usually for further processing) Shipments to competite strong or setting the strong or setting of the setablishments (mining, construction, accommunication, att.) Shipments to competite the setablishments (mining, construction, accommunication, att.) Amountainments, wholeselers Menufactures Menufactures Menufactures Menufactures Menufactures Menufactures Menufactures Menufactures Menufactures and to sports TOTAL (Sum of lines 1 – 3 should approximate the sum of product shipments reported in flam 18, or your climbures for any products abought and approximate the sum of product shipments reported in flam 18, or your climbures for any products bought and approximate the sum of product shipments approximate paperant of shipments apported in flam 18, or your clima 10 these are products bought and sold for (reseles) without turther shipment reported on line 2 or 6, do show include	000 000 000 000 000				40-		49		40		40-		•		40-		40-		49-		
Manufactuing establishments (usually for further processing)	000 000 000																				
Shipments to chee setablishments (mining, construction, service, reassportation, communication, etc.) Shipments to chee a companies of companies of companies of companies, includiduals, and for export Retailers (See item 3) Menufecturere Menufecturere Menufecturere And transportation companies, private and public naturations, banks, hosis, and other service type businesses; and for experts. TOTAL (Sum of lines 1—9 should approximate the sum of produce a hipments reports, including the sum of produces and produces are ports, including the sum of produces are ported in item 18, of your consumer statements are products bought and sold evithout (reseales) without turner relationshimment medicilis the shipments reported on line 2 or 6, do they include assets the sum establishment medicilis the shipment and sold evited on line 2 or 6, do they include	000 000																				
Shipments to other companies. 6 companies. 1 companies. 1 Menufacturere 8 Menufacturere Menufacturere And transportation companies, private and transportation companies, private and transportation companies, and other shipments. 10 ToTAL (Sum of lines 1—3 should approximate the sum companies of Menufactures reported in Item 18, of your companies of Menufactures reported in Item 18, of your companies for any products a bought and and shipment and sufficients are products bought and sold (reseales) with the stability of th	900 00															- -					
Inclividuals	002																				
Menufecturere Rederel, Stete, and local governments Federel, Stete, and local governments Other (including construction, mining, utility, and transportation companies, private and public institutions, sheek, house, and other service type businesses; and for apparation starker type businesses; and for apparations of produce a highmants are apported in Itam 18, of your consus of Manufestures reported in Itam 18, of your consus of Manufestures reported in Itam 18, of your consus of Manufestures reported in Itam 18, of your consus of Manufestures reported in Itam 18, of your consus of Manufestures reported in Itam 18, of your consus of Manufestures reported in Itam 18, of your consustance for any products bought and approach and in Itam 19, of the series products bought and sold (reseale) without turther eibrication by the asset reported on line 2 or 6, do story Include																					
Federel, Stete, and local governments Other (including construction, miring, utility, and transportation companies, private and transportation companies, private and transportation companies, private and private and transportation companies, and other subjects the private steps of including as a possible steps of products hipmants resported in transportation of products a hipmants resports, including an allowance for any products bought and sold without further fabrication; Item 2 — Approximates percent of ahipmants resported on line 10 thrs ere products bought and sold without (reseales) without turther fabrication by the assessie) without turther fabrication by the assessies) without turther fabrication by the assessies) without turther fabrication by the assessies without turther fabrication by the fabric	900															 -					
Other (including construction, mining, utility, utility, utility, utility, and a service and public institutions, banks, house, and other services and other services, banks, house, and other service type businesses; and for asports. TOTAL (Sum of lines 1—9 should approximate the sum of product shipmarts reported in itsm 12 of your Canaus of Manufectures reports, including an allowance for any products bought and sold without farther fabrication.) Item 2 — Approximate percent of shipmarts reported on Item 2 — Approximate percent of shipmarts reported on every service services and interest services. Item 2 — Approximate percent of shipmarts reported on services and servic	900																				
TOTAL (Sum of lines 1—8 should approximate the sum of produce shipments reported it lean 15, of your Consus of Manufectures reports, Including an Consus of Manufectures reports, Including and sold without 10 further fabrication; Item 2 — Approximate percent of shipments reported on Inn's (other ene products bought and sold (reseales) without further elabrication by the astellalement moking the shipment	010	·																			
Item 2 — Approximate percent of shipments reported on line 10 test even products abought and sold (reseles) without further febrication by the establishment making the shipment establishment making the shipment																					
▶ Item 3	012		*		8	*	%	%		6	%	8	*		*		%		%		%
If "Yes," estimate the percentage of retail shipments going to eeting and drinking places.			*		8	ď.	8	%		6.	%	61	*		%		%		%		%



1987 CENSUS OF MANUFACTURES

DISTRIBUTION OF MANUFACTURERS' SALES BY CLASS OF CUSTOMER

OM8 No. 0607-0558: Approval Expires 06/95

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same lew, your report to the Census Bureau is confidential, it may be seen only by sworn Census employees and may be used only for stetistical purposes. The law elso provides that copies reteined in your files are Immune from legal process.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, IN 47134

DUE DATE: FEBRUARY 15, 1988

If you cannot file by the due date, a time extension request should be sent to the above address; pleasa include your 11-digit Census File Number (CFN).

Note — Please read all instructions on this page before answering items 1-3 on the reverse.

In correspondence perteining to this report, please refer to this Census File Number (CFN)

Employer Identification (EI)

MC-9602

Please correct errors in neme, eddress, and ZIP Code. ENTER street and number if not shown.

INSTRUCTIONS

► SURVEY DESCRIPTION

As pert of the 1987 Census of Menufectures, the Bureau of the Census Is conducting this survey on Distribution of Menufacturers' Seles by Cless of Customer. This survey is conducted every 10 yeers end was lest done es part of the 1977 Census of Manufactures. (Similer information on the seles of wholeselers by class of customer is being collected in the Census of Business for 1987 on forms CB-5012—CB-5199.) This survey will provide e current enelysis of the marketing channals through which goods move from the menufacturer to the user or consumer. The results are needed for the improvement of the netlonal income end product statistics.

► HOW TO REPORT — This report provides a summary of the distribution of the shipments of this establishment by class of customer. The total value of products distributed should approximately equal the total value reported on the eccompenying 1987 Census of Menufectures report form.

This report will measure that flow of products from this establishment to its customers. Please report In column (B) the value of ell of your products, whether made in this establishment or purchased end sold without further febrication, shipped to each of the cless of customer categories listed in column (A). Ropper shipments on consignment est shough the merchandles hed been sold at the time of the shipment. If such consignment shipments ere to agents, consider the egent as e wholeseler.

We appreciate that there is no uniform system of sales analysis and that completaness of records varies considerably among compenios. Therefore, it will be necessary for companies to derive astimates based on any information available as to the type of economic activity of their customers. Approximations are acceptable.

► DESCRIPTION OF CLASS OF CUSTOMER

Shipments to other establishments of this company -

These shipments should be allocated on lines 1-4, according to type of business activity of these locations.

- Wholesele establishments line 1 Include not only shipmants to wholesele locations but elso shipments to or on order from seles brenches, seles offices, end administrative offices which operate primorily to scill products menufectured by your compeny. These activities ere reported on Census of Businoss Forms CB-5012—CB-5199 end on Form ES-9200, Central Administrative Offices and Auxiliaries.
- Retell stores and outlets line 2 Report shipments to seperetely operated retell stores which elso report in the Census of Business for this
- Menufecturing establishments line 3 Report all transfers or shipments from one manufacturing plent of this company to enother whether for further processing, for use es e meteriel or supply, or for reseles by the other plants.
- Other establishments line 4 Report shipments to other plents of this company such as mining, construction, trensportation, communication, services, etc.

Shipments to other companies, governments, individuals, and for export -

These shipments should be ellocated according to type of customer on lines $5\cdot 9$. Report shipments on consignment as though the merchandise had been sold at the time of the shipment. If such consignment shipments are to agents, consider the egent as a wholeseler.

- Wholesalers line 5 Report shipments to companies that are purchasing primerily to resell the products to other businesses or institutions, include industrial distributors, drop shippers, desk jobbers, voluntery group wholesalers, retail cooperetive warehouses, end exporters.
- Retailers line 6 Report shipmente to eeting end drinking pleces, chein stores, mall order houses, depertment stores, independent reteilers, including independent route selesmen such as bakery or dairy truck distributors who soll directly to households. Include shipments to lumber yards; paint, glass, end wellpeper stores; electrical supply stores; heeting equipment deelers; ferm end gerden supply stores; and farm equipment dealers. Retailers
- Menufecturers Ilne 7 Includa as manufacturers, food processors such as meat peckers, bakerles, deiries, and bottling plents; sheet metel operations; feed mixers; loggers; sawmille; printing; publishing; reedy mixed concrete; apparel jobbors; and machino shops.
- Federel, State, and local governments line 8 include sales to all branches and agencies of all levels of government end to corporations owned by the Federel Government, if you heve selas as es aubcontractor on a government contract, report your sales according to the activity of the prime contractor for whom you did the work.
- Other Ilne 9 Includes the following
 - a. Construction companies
- b. Mining companies
- c. Utility companies
- d. Trensportetion companies
- e. Privete end public institutions (e.g., hospitels end schools)
- g. Hotels
- h. Individueis
- I. Households
- 1. Fermers
- k. Exports (Include products directly exported by your compeny. Products ahipped to export intermediaries should be reported as shipped to wholeselers.)

REMARKS -- Please use this space for any explanations that may be essential in understanding your reported data.

Fo	rm MC-9602												Page :
	Item 1 — Distributi	ion of seles											
L i n e				Class	of custom	er				Көү	Velue	of prod hipped (B)	ucts
N o.	1				(A)						Millions	Thou- sands	Dollar
1	SHIPMENTS TO OTHER ESTABLISHMENTS	Wholesale establishmer sales offices, and admir	nts lincludin nistrative of	g those shi fices)		r on ordar fror	n your separata salas	branches,		102	\$	 	
2	OF THIS	Retail stores and outlets	s (See item	3)						103		<u> </u>	
3		Manufacturing astablish	ments (usc	ally for fur	ther process	sing)				104		1	
4		Other astablishments (r	nining, cons	struction se	orvica, trans	portation, con	nmunication, etc.)			105			
5		Wholesalers								106		<u> </u>	<u> </u>
6		Ratailers (See item 3)								107			<u> </u>
7	EXPORT	Manufacturers								108			
8		Federal, State, and loca	l governme	nts						109			<u> </u>
9		Other (including construent and other service-type)	uction, mini businassas;	ng, utility, and for ax	and transpo ports. Includ	rtation compa le also direct s	nies; privata and publ ales to individual hou	ic institutions; be seholds, farmers	nks, hotels, . etc.)	110			
10	TOTAL (Sum of line Manufactur	s 1—9 should approxim res reports, including ar	ate the sur allowance	n of produ	ct shipmer roducts bo	ts reported li ught and sol	n item 188, of your diwithout further fal	Census of brication.)		111	\$		
11	Receipts for work don	ne for others on their mate	erials (same	as contrac	t receipt val	ues in item 18	B on Census Manufac	tures report forn	n)	112			_
12		s (sum of miscellaneous					factures report form)			113			
13	TOTAL (Sum of line reported in	s 10—12 should be the item 188 of your Censu	same as to s of Manu	tal value d factures re	of shipment oport form.	s				112	\$	i	
		nate percent of ships by the establishmer									Pe	rcentage	
	Item 3 — If data as	re reported on line 2 o	or 6, do th	ev includ	e shipmeı	nts of food i	products to eating	and drinking	places?	115			%
	116 1 Yes - If	"Yes," estimate the perc											
L	2 🗆 No	e use this space for any								117			%
N re	CERTIFICATIO ame of person to con port — <i>Print</i> or type	PN — This report is su tact regarding this	bstentially Araa coda	Tele	and has be ephone	en prepared	in accordance with Period covered by this report	ninstructions. FROM: Mo.	Yeer	TO:	: Мо.	Yeer	
A	ddress — Number and	d street		1			Signature of author	orized person					
C	ity		State		ZIP Code		Title				Date		
_					1								



1987 CENSUS OF MANUFACTURES

DISTRIBUTION OF MANUFACTURERS' SALES BY CLASS OF CUSTOMER

MC-9603 0607-0558: Approval Expires 06/69 Employer Identification (EI) NOTICE — Response to this inquiry is required by lew (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legel process. In correspondence pertaining to this report, plaase refer to this Cansus File Number (CFN) MC-9603 **BUREAU OF THE CENSUS** Please complete this form and RETURN TO Jeffersonville IN 47134 DUE DATE: FEBRUARY 15, 1988 If you cannot file by the due date, a time extension request should be sent to the above address; please include your 11-digit Census File Number (CFN). Note — Please read all instructions on this page before answering items 1-3 helow. Please correct errors in name, eddress, end ZIP Code, ENTER street end number if not shown. INSTRUCTIONS Retailers — line 2 — Report shipments to eating and drinking places, chain stores, mail order houses, department stores, independent retailers, including independent route selesmen such as bakery or dairy truck distributors who sell directly to households. Include shipments to lumber yerds; peint, gless, end wellpeper stores; electricel supply stores; heeting equipment deelers; farm and garden supply stores; and farm equipment dealers. **►** SURVEY DESCRIPTION As pert of the 1987 Census of Menufectures, the Bureau of the Census is conducting this survey on Distribution of Manufacturers' Sales by Class of Customer. This survey is conducted every 10 years end wes lest done as pert of the 1977 Census of Manufectures. (Similer information on the seles of wholesalers by class of customer is being collected in the Census of Business for 1987 on forms CB-5012—CB-5199.) This survey will provide a current enelysis of the marketing chennels through which goods move from the menufacturer to the user or consumer. The results ere needed for the improvement of the national income and product statistics. Menufacturers — line 3 — Include es menufecturers, food processors such es meat packers, bakeries, daines, end bottling plants; sheet metal operations; feed mixers; loggers; sawmills; printing; publishing; ready mixed concrete; apparel jobbers; and machine shops. Federal, State, and local governments — line 4 — Include sales to all brenches and agencies of all lovels of government and to corporations owned by the Federal Government. If you have seles as a subcontractor on a government contract, report your seles according to the activity of the prima contractor for whom you did the work. HOW TO REPORT — This report provides a summary of the distribution of the shipments of this establishment by cless of customer. The total value of products distributed should approximately equal the total velue reported on the accompanying 1987 Census of Menufectures report form. This report will measure the flow of products from this establishment to its customers. Please report Incolumn (B) the value of all of your products, whether made in this establishment or purchesed and sold without further febrication, shipped to each of the class of customer cetegories listed in column (A). Report shipments on consignment es though the merchendles had been sold at the time of the shipment, if such consignment shipments are to agents, consider the agent as e wholesaler. • Other - Rna 5 - Includes the following: a. Construction companies b. Mining companies c. Utility companies d. Trensportation compenies e. Privete and public institutions (e.g., hospitals end schools) We appreciate that there is no uniform system of selcs analysis and that completeness of records varies considerably among compenies. Therefore, it will be necessary for companies to derive astimates besed on eny information aveilable es to the type of economic activity of their customers. Approximations are ecceptable. g. Hotels h. Individuals I. Households Wholesalers — line 1 — Report shipments to compenies that are purchasing primerily to resell the products to other businesses or institutions. Include industrial distributors, drop shippers, desk jobbers, voluntery group wholeselers, reteil cooperative warehouses, and exporters. i. Fermers k. Exports (Include products directly exported by your company. Products shipped to export intermediaries should be reported as shipped to wholesalers.) Item 1 — Distribution of sales Value of products ahlpped Cleas of customer Key (B) Thou- I sands | Dollers (A) Wholeselers 201 2 Retailers (Seo item 3) 202 Manufacturers Federal, State, and local governments 204 Other (including construction, mining, utility, and transportation companies; private and public institutions; banks, hotels, and other service-type businesses; and for exports. Include also direct sales to individual households, fermers, etc.) 205 TOTAL (Sum of lines 1—5 should epproxime to the sum of product shipments reported in item 188, of your Cansus of Manufactures reports, including an allowance for any products bought and sold without further fabrication.) Receipts for work done for others on their materials (same as contract receipt values in Item 18B on Census of Manufectures report form) Miscellaneous receipts (sum of miscellaneous receipts reported in item 188 on Census of Manufectures report form) 208 TOTAL (Sum of lines 6—8 should be the same as total value of shipments reported in item 188 of your Cansus of Manufectures report form.) Item 2 — Approximate percent of shipments reported on line 6 that ere products bought and sold (reseles) without further febrication by the establishment meking the shipment. Percentage % Item 3 — If dete ere reported on line 2, do they include shipments of food products to eating end drinking pieces? 1 Yes - If "Yes," estimete the percentege of reteil shipments going to eeting end drinking places. 211 2 No % REMARKS - Please use this space for any explanations that may be essential in understanding your reported data. CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions. Mo. | Year Name of person to contact regarding this report — Print or type Telephone FROM: Mo. Year TO: Area code Number Extension Period covered by this report Address - Number end street Signature of authorized person ZIP Code City Date State

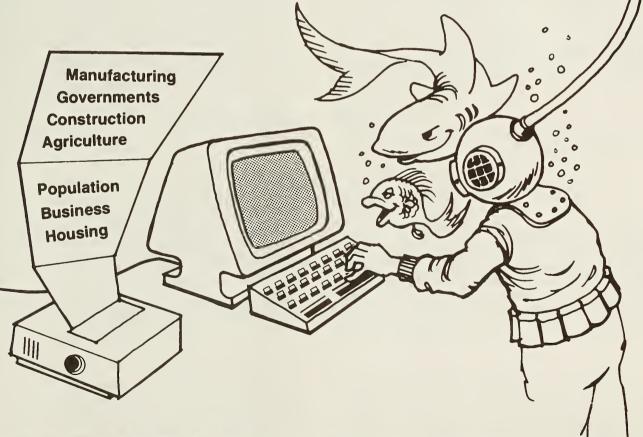


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PUBLICATION PROGRAM

1987 CENSUS OF MANUFACTURES

Publications of the 1987 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

Preliminary Reports

Industry series—83 reports (MC87-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the U.S. and States are released in one report.

Final Reports

Industry series—83 reports (MC87-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ("dairy products" includes industries for butter, cheese, milk, etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents, inventories, employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry, data on value of shipments, value added by manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

Geographic area series—51 reports (MC87-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MSA's, counties, and selected places. Comparative statistics for earlier census years are shown for the State and large MSA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

Subject series—7 reports (MC87-S-1 to -7)

Each of the seven reports contains detailed statistics for an individual subject, such as concentration ratios in manufacturing, type of organization, textile machinery in place, distribution of sales by class of customer, manufacturers' shipments to the Federal Government, and a general national-level summary.

Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries.

Location of Manufacturing Plants—1 report (MC87-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and zip codes for each State. (This report is available only on magnetic tape and CD-ROM.)

Analytical Reports—3 reports (AR87-1 to -3)

Exports From Manufacturing Establishments (AR87-1)

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

Selected Characteristics of Manufacturing Establishments That Export (AR87-2)

This report presents data on the number of manufacturing companies and establishments that export by major group, State, employment size, and ratios of exports to shipments.

Indexes of Production (AR87-3)

The indexes presented in this report are designed to measure the change in physical output of each manufacturing and mineral industry between 1982 and 1987.

MICROFICHE

Every final published report in the 1987 Census of Manufactures will be available on microfiche.

PUBLIC-USE COMPUTER TAPES AND COMPACT DISCS

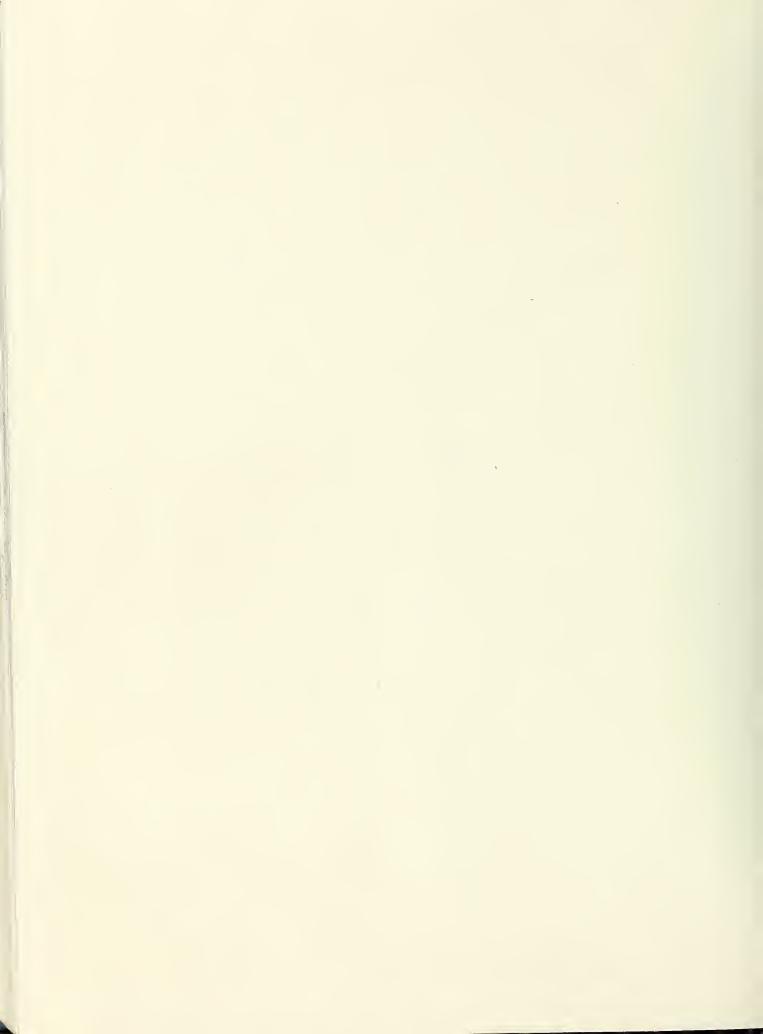
Data from the final industry series, geographic area series, and the Location of Manufacturing Plants report will be available on public-use computer tapes and compact discs-read only memory (CD-ROM). These tapes will provide the same information found in the final reports. Computerized data products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, mineral industries, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.







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